THE UNIVERSITY OF ALABAMA

INVITATION FOR BID

ATTENTION: This is not an order. Read all instructions and terms and conditions carefully.

INVITATION NO.:	**T052945**
Issue Date:	**10/04/2012**
Title:	**Furnish and Install AV Equipment for Strength & Conditioning Faciliity**
Buyer:	**Marlene Thomas**
Phone:	**(205) 348-5552**
Email:	**mthomas@fa.ua.edu**

RETURN ALL COPIES OF BIDS TO:
THE UNIVERSITY OF ALABAMA
PURCHASING DEPARTMENT
(Street Address) 1101 Jackson Ave Suite 3000
Tuscaloosa, Alabama 35401
OR
(Mailing Address) Box 870130
Tuscaloosa, Alabama 35487
PHONE: (205)348-5230 FAX: (205) 348-8706

Bid Responses may NOT be faxed or emailed.

IMPORTANT: SEALED BIDS MUST BE RECEIVED BY 10/23/2012 @ 2:00 P.M. CST TIME

Bid number and opening date must be clearly marked on the outside of all bid packages.

1. Pursuant to the provisions of the State of Alabama Competitive Bid Law, Section 41-16-20 and/or 39-2, rules and regulations adopted there under sealed bids will be received on the items noted herein by The University of Alabama Purchasing Department until the date and time stated above. In accordance with Alabama State Bid Law Section 41-16-27, where applicable, the University reserves the right to enter into negotiations within thirty (30) days of the bid opening.
2. The University's General Terms and Conditions and Instructions to Bidders, apply to this Solicitation and shall become a part of any contract issued hereunder.
3. For purposes of this Solicitation, the Solicitation documents shall consist of the following components:
   a) Invitation for Bid and any Addenda; b) General Terms and Conditions; c) Instructions to Bidders
   In the event that any provision of the component parts of the Solicitation conflicts with any provision of any other component parts, the component part first enumerated shall govern.
4. This Agreement and any disputes hereunder shall be governed by the laws of the State of Alabama without regard to conflict of law principles.

CERTIFICATION PURSUANT TO ACT NO. 2006-557

Alabama law (section 41-4-116, code of Alabama 1975) provides that every bid submitted and contract executed shall contain a certification that the vendor, contractor, and all of its affiliates that make sales for delivery into Alabama or leases for use in Alabama are registered, collecting, and remitting Alabama state and local sales, use, and/or lease tax on all taxable sales and leases in Alabama. **By submitting a response to this solicitation, the bidder is hereby certifying that they are in full compliance with Act No. 2006-557**; they are not barred from bidding or entering into a contract pursuant to 41-4-116, and acknowledges that The University of Alabama may declare the contract void if the certification is false.

DISCLOSURE STATEMENT

1. If you or any owner, officer, partner, board or director member, employee, or holder of more than 5% of the fair market value of your firm or any member of their households is an employee of The University of Alabama, this information must be included in your solicitation response. Failure to disclose this information in your response may result in the elimination of your proposal from evaluation.
2. If you or any owner, officer, partner, board or director member, employee, or holder of more than 5% of the fair market value of your firm or any member of their households is an employee of The University of Alabama; and you or your firm is awarded a contract as a result of this solicitation, then within ten (10) days after the contract is entered into, you agree to file a copy of that contract with the State of Alabama Ethics Commission in accordance with Code of Alabama, Section 36-25-11 and upon request by the University furnish evidence of such filing.
3. By accepting payments agreed to in any purchase order resulting from this bid, Contractor certifies that to its knowledge no University employee or official, and no family members of a University employee or official, will receive a benefit from these payments, except as has been previously disclosed, in writing, to the University on the Disclosure Statement of Relationship Between Contractors/Grantees and Employees/Officials of The University of Alabama.

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby swear (or affirm) under the penalty for false swearing as provided in Code of Alabama 6-5-180 that

1. In accordance with Code of Alabama Section 41-16-25, amended 1975 that the attached response has been arrived at independently and has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other vendor of materials, supplies, equipment or services described in the Invitation for Bids, designed to limit independent bidding or competition;
2. The contents of the bid or bids have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid or bids and will not be communicated to any such person prior to the official opening of the bid or bids.
3. The bidder is legally entitled to enter into contracts with The University of Alabama and is not in violation of any prohibited conflict of interest, including those prohibited by the Code of Alabama 13A-10-62, as amended 1975.
4. I have fully informed myself regarding the accuracy of the statement made above.

THIS AREA MUST BE COMPLETED

DELIVERY AFTER RECEIPT OF ORDER:	**NAME OF COMPANY:**	**PHONE:**
FEDERAL EMPLOYER ID NO.:	**ADDRESS:**	**FAX:**
PAYMENT TERMS:	**ADDRESS:**	**E-MAIL:**
SHIPPING TERMS: **F.O.B. DESTINATION–PREPAID AND ALLOWED**	**CITY, STATE & ZIP CODE:**	**DATE:**
QUOTE VALID UNTIL:	**SIGNATURE:**	**Typed/Printed Name of Signor**

SIGNATURE REQUIRED: This bid cannot be considered valid unless signed and dated by an authorized agent of the bidder. Type or print the information requested in the spaces provided.

Please Note New Bid Specification and Requirements Indicated Below

State of Alabama Immigration Law

If the successful bidder is located in Alabama or employs an individual or individuals within the State of Alabama, the successful bidder shall provide a copy of its Employment Eligibility Verification (E-Verify) company profile. To expedite the ordering process, this document may be submitted with the bid response.

If the successful bidder is not located in the State of Alabama and does not employ an individual or individuals within the State of Alabama, the successful bidder shall complete and return the Certification of Compliance form included with this Request for Price Quotation (E-Verify company profile is not required). To expedite the ordering process, this document may be submitted with the bid response.

If you are not currently enrolled in E-Verify, follow these instructions:

- Log onto www.uscis.gov/everify
- Click "Getting Started" for information about the program, requirements, and enrollment process.
- Click "Enroll in E-Verify" and begin enrollment process.
- When enrollment process is complete, click "Edit Company Profile" and print this one-page document.
- This one-page document must be submitted prior to a contract or purchase order being issued.
- For further assistance please consult the E-Verify Quick Reference Guide.

If you have previously enrolled in E-Verify, follow these instructions:

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- This one-page document must be submitted prior to a contract or purchase order being issued.

The following has been added to the University of Alabama's General Terms and Conditions

35. State of Alabama Immigration Law

Pursuant to the State of Alabama Immigration Law, by signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.

INVITATION FOR BID

The University of Alabama requests sealed bids as per attached general and technical specifications or equal unless otherwise specified in the Special Conditions.

All Bidders submitting a bid must read all specifications carefully and respond accordingly. Failure to do so may eliminate your bid from consideration due to non-compliance.

1.0 GENERAL SPECIFICATIONS

1.1 All bid responses, technical information and any other attachments furnished to The University of Alabama in response to this request for quotation must be submitted in duplicate (THE ORIGINAL BID AND ATTACHMENTS WITH ORIGINAL SIGNATURE AND ONE EXACT COPY OF THE ENTIRE BID RESPONSE). Bidders who fail to follow this format may be disqualified from the evaluation and award phase of this bid.

1.2 The stated requirements appearing elsewhere in this solicitation shall become a part of the terms and conditions of any resulting contract. Any deviations there from must be specifically defined. If accepted by the University, the deviations shall become part of the contract, but such deviations must not be in conflict with the basic nature of this solicitation.

Note: Bidders shall not submit their standard terms and conditions or purchase order terms as exceptions to or modification of the terms and conditions of this solicitation. Each exception to or modification of a University term and condition shall be individually listed by the bidder. Failure to follow this instruction may result in the determination that a bid submission is non-responsive to a solicitation and the rejection of that bid.

1.3 The issuance of a University Purchase Order (P#) or a signed Contract document is required to constitute a contract between the successful Bidder and the University which shall bind the successful Bidder to furnish and deliver the commodities ordered at the prices, terms and conditions quoted and in accordance with the specifications of this Solicitation as well as the terms and conditions of the University's Purchase Order or Contract. No shipments are to be made to The University of Alabama without the issuance of a Purchase Order (P#). (Bidders are not to accept or ship items against a requisition number "R" #.)

1.4 Any questions concerning these specifications should be directed to the Buyer listed on the signature page.

1.5 No department, school or office at the University has the authority to solicit or receive official Solicitations nor authorize Solicitation or Contract changes other than the Purchasing Department. All solicitations are issued under the direct supervision of the Associate Director for Purchasing and in complete accordance with the State of Alabama Bid Law, Section 41-16-20 and University policies and procedures.

1.6 The terms and conditions included in this Solicitation along with any addenda, any University contract and/or University purchase order(s) issued referencing this Solicitation, the University's General Terms and Conditions, Instructions to Bidders shall constitute the entire and exclusive Contract between the University and the successful Bidder.

1.7 **State of Alabama Immigration Law**

If the successful bidder is located in Alabama or employs an individual or individuals within the State of Alabama, the successful bidder shall provide a copy of its Employment Eligibility Verification (E-Verify) company profile. To expedite the ordering process, this document may be submitted with the bid response.

If the successful bidder is not located in the State of Alabama and does not employ an individual or individuals within the State of Alabama, the successful bidder shall complete and return the Certification of Compliance form included with this Request for Price Quotation (E-Verify company profile is not required). To expedite the ordering process, this document may be submitted with the bid response.

If you are not currently enrolled in E-Verify, follow these instructions:

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- Click “Getting Started” for information about the program, requirements, and enrollment process.
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If you have previously enrolled in E-Verify, follow these instructions:

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- Click “Edit Company Profile” and print this one-page document.
- This one-page document must be submitted prior to a contract or purchase order being issued.

2.0 QUALIFICATIONS AND STANDARDS

Due to the importance of maintaining a safe University environment, it is imperative that the successful bidder meet certain qualifications that will guarantee The University of Alabama the successful Bidder is qualified to furnish and deliver products, equipment and services or furnish, deliver, install, service and/or repair equipment whichever is applicable as required in this Solicitation. In order for Bidders to qualify, the following requirements must be fulfilled:

2.1 The Bidder must provide, in writing, a statement that the Bidder has been regularly engaged in business for a minimum three (3) years engaging in furnishing, delivering, servicing, repairing and installing, equipment, goods, or services required in this Solicitation. In lieu of the minimum number of years in business, a performance bond may be submitted in the amount of one hundred (100 %) per cent of the contract price. This bond will be used to secure the completion of the project should the successful Bidder default for any reason. Failure to comply with this requirement may eliminate your bid response from consideration.

2.2 Each bidder required to provide a bond, shall submit a letter from a bonding agent licensed to do business in the State of Alabama stating that if the bidding company is the successful bidder, said bonding agent will furnish a 100% performance and payment bond covering and including products and service for the duration of the contract period. Said bond shall be subject to the approval and acceptance of The University of Alabama. The bond must be furnished to the University Purchasing Department within forty-eight (48) hours after receipt of the purchase order. The premium of the bond shall be paid by the successful bidder. Failure to provide the bond letter or bond will eliminate your bid from consideration in the bid award.

3.0 REFERENCES

References must include at least three (3) other universities, institutions or businesses, which the bidder has successfully provided products, services or installation of equipment similar to those required in this Solicitation in terms of manufacturer, size, features, service or type of installation. The references must include company name, address, project/delivery date, contact name, phone number, and email address.

4.0 PRODUCT SPECIFICATIONS

Specify all terms and conditions of the warranties associated with your products with your bid response.

5.0 PRICE QUOTATION

5.1 IMPORTANT: It is required that the PRICE QUOTATION SHEET(S) furnished with this Request for Price Quotation be completed and submitted with your proposal. DO NOT send generated price lists as your bid. Failure to comply with this request may eliminate your bid from consideration in the bid award.

5.2 All prices shall be quoted furnish and install (if applicable) FOB The University of Alabama, Tuscaloosa, AL 35487 prepay and allowed. Unit prices quoted must include any and all shipping and handling charges. Any freight claims will be the responsibility of the Bidder. The successful Bidder must transport at the time of set-up, the equipment and supplies necessary for this installation to campus. No direct shipments will be accepted.

5.3 It is the Bidder's responsibility to verify any information, measurements and obtain any clarifications prior to submitting the bid response. The University is not liable for any errors or misinterpretations made by the Bidder in response to this Solicitation.

5.4 The successful Bidder under the specifications required in this Solicitation shall furnish at its expense all equipment, labor, tools, supplies, transportation, insurance and other expenses necessary to fully perform any phase of the requirements of this Solicitation.

5.5 Quote prices firm for a period of ninety (90) days following the bid opening date unless otherwise stated in the Special Conditions. Bids that do not guarantee pricing firm for this period may be eliminated. Failure to quote the term for which your prices will remain firm may eliminate your bid from consideration.

5.6 The quoted price must include but not be limited to all cables, wires, connectors, etc. to make a complete functioning unit unless specifically stated in the special conditions.

5.7 Include with your bid response complete details of your company's Return Merchandise policy, including, but not limited to, amount of any restocking fee required, procedures, limitations, contact person and phone number. While the University does not enter into any purchase with the intent to return items ordered, we do require this information be included with your bid response. Failure to include this information may be grounds for elimination of your bid from consideration.

6.0 DELIVERY, INSTALLATION AND TRAINING REQUIREMENTS

6.1 Proposed delivery dates shall be stated in number of calendar days after receipt of order.

6.2 All items must be delivered directly to the University by the successful Bidder and placed according to the instructions supplied by the University.

7.0 INSURANCE

7.1 See General Terms and Conditions for general Insurance Requirements, Additional Insurance requirements may be listed in the Special Conditions Section.

7.2 The successful Bidder shall provide the University Purchasing Department a certificate of insurance listing the required types of insurance and minimum liabilities specified in the General Terms and Conditions unless otherwise modified in the Special Conditions.

7.3 The certificate must be received by The University of Alabama Purchasing Department within three (3) days of request. Failure to comply with this request may eliminate your bid from consideration in the bid award.

7.4 The University reserves the right to terminate any resulting contract, if the Bidder fails to keep these policies in force for the above amounts or for the duration of the contract period.

7.5 The umbrella policy must be listed on the insurance certificate with an explanation of the coverage.

8.0 RESTRICTIONS ON COMMUNICATIONS WITH UNIVERSITY STAFF

From the issue date of this Solicitation until a Contractor is selected and a contract award is made, Bidders are not allowed to communicate about the subject of the IFB with any University administrator faculty, staff, or members of the Board of Trustees except:

- The Purchasing Department representative, any University Purchasing Official representing the University administration, or others authorized in writing by the Purchasing Office and
- University Representatives during Bidder presentations.

If violation of this provision occurs, the University reserves the right to reject the Bidder's response to this Solicitation.

9.0 SPECIAL CONDITIONS

9.1 FURNISH, DELIVER AND INSTALL AV EQUIPMENT FOR STRENGTH & CONDITIONING FACILITY.

9.2 SCOPE OF WORK

In accordance with the State of Alabama Title 39 requirements, The University of Alabama is requesting sealed bids to furnish, deliver and install AV Equipment for Strength & Conditioning Facility for the University. This project is located at the University of Alabama, Tuscaloosa, AL.

9.3 PRE-BID CONFERENCE

A Pre-Bid Conference / On-site visit will be held at The University of Alabama on Tuesday, Oct. 16, 2012, meet at South Lawn Office Building Lobby, 1101 Jackson Ave, Tuscaloosa, AL 35401 to clarify the University's expectations to prospective Contractors and to visit the site(s).

The following items should be noted in reference to the Pre-Bid Conference:

- Attendance at the Pre-Bid Conference is **highly encouraged. Due to the complexity of the scope of work to be performed, site conditions and other issues that may affect your proposal are not described in the bid specifications and will be discussed in detail during the pre-bid conference. Minutes or notes from the Pre-Bid Conference will not be taken by the University and will not be made available to potential bidders.**

- Bidders having attended the pre-bid conference are encouraged to submit written questions after the Conference by Wednesday at 11:00 am. The University will prepare written responses to all written questions submitted and make them available to all Bidders. The questions and answers will be made part of the solicitation and may become part of the contract with the successful Contractor.

9.4 BID BOND

A Cashier's check or bid bond payable to The University of Alabama in an amount not less than five (5) percent of the amount of the bid, but in no event more than $10,000, must accompany the bidder's response. Performance and Payment bonds and evidence of insurance required in the bid documents will also be required prior to the award of a contract.

9.5 GENERAL CONTRACTOR'S LICENSE REQUIREMENT

All bidders bidding in amounts exceeding that established by the State Licensing Board for General Contractors must be licensed under the provisions of Title 34. Chapter 8, Code of Alabama, 1975, and must show evidence of license included with the bid response or the bid response will not be considered by the University; the bidder shall show such evidence by clearly displaying his or her current license number on the outside of the sealed envelope in which the bid response is delivered. The University reserves the right to reject any or all bid responses and to waive technical errors if, in the University's judgment, the best interests of the University will thereby be promoted.

9.6 BIDDER QUALIFICATIONS

a. When the amount bid for a contract exceeds the amount established by the State Licensing Board for General Contractors, the bidder must be licensed by that board and must provide proof of license to The University of Alabama Purchasing Department before bidding or the bid will not be accepted or considered by the University. A bid exceeding the bid limit stipulated in the bidder's license, or which is for work outside of the type or types or work stipulated in the bidder's license, will not be considered. See Chapter 8, Title 34, Code of Alabama (1975).

b. Any special qualifications required of general contractors, subcontractors,

c. With their bid, nonresident bidders must submit a written opinion, of an attorney at law licensed to practice law in the nonresident bidder's state of domicile, as to the preferences, if any or none, granted by the law of that state to its own business entities whose principal places of business are in that state in the letting of any or all public contracts.

d. A nonresident bidder is a contractor which is neither (a) organized and existing under the laws of the State of Alabama, nor (b) maintains its principal place of business in the State of Alabama. A nonresident contractor which has maintained a permanent office within the State of Alabama for at least five continuous years shall not thereafter be deemed to be a non-resident contractor so long as the contractor continues to maintain a branch office within Alabama.

e. Successful bidder must be able to provide support as requested below.
Support: One year on the full system as integrated. Must be able to provide phone support M-F 8:00am-5:00pm and on-site technician within 24-hours when needed.

9.7 COPIES OF CONTRACT DOCUMENTS

There are no Contract Drawings associated with this bid package.

9.8 EXAMINATION OF CONTRACT DOCUMENTS AND OF THE SITE OF THE WORK

a. Before submitting a bid for the Work, the bidders shall carefully examine, read, and study the Bid Contract Documents, attend the on-site inspection of the site, and satisfy themselves as to the nature and location of the Work, and the general and local conditions, including weather, the general character of the site or building, the character and extent of existing work within or adjacent to the site, and any other work being performed thereon at the time of submission of their bids.

b. Bidders shall fully inform themselves as to transportation, disposal, handling, and storage of materials, availability of water, electric power, and all other facilities in the area which will have a bearing on the performance of the Work for which they submit their bids. By submission of a bid, bidder acknowledges that bidder examined the Contract Documents and found them to be complete, accurate adequate, consistent, coordinated and sufficient for construction and visited the site and has judged for and satisfied himself as to conditions to be encountered regarding the character, difficulties, quality, and quantities of work to be performed and the material and equipment to be furnished, The University of Alabama's tax exempt status, and as to the contract requirements and contingencies involved. The University of Alabama makes no representation or warranty of any nature whatsoever to bidders concerning the Contract Documents.

c. Should concealed and unknown conditions encountered in the performance of the Work in an existing structure be at variance with the conditions indicated by the Contract Documents, or should unknown conditions of an unusual nature differing materially from those ordinarily encountered in the area and generally recognized as inherent in the Work of the character provided for in the Contract Documents, be encountered, the compensation to be paid for the Work shall be equitably adjusted by Change Order upon written notice and claim by either party made within 7 days after the first observance of the condition. As a condition precedent to The University of Alabama having any liability to the Contractor for concealed and unknown conditions, the Contractor must give The University of Alabama written notice of, and an opportunity to observe, the condition prior to disturbing it. The failure of Contractor to make the written notice and claim as provided in this paragraph shall constitute a waiver by the Contractor of any claim arising out of or relating to such concealed or unknown condition.

9.9 EXPLANATIONS AND INTERPRETATIONS

a. Before submitting a bid, bidders shall carefully examine, read, and study the Bid and Contract Documents.

b. Clarifications will be made only by written Addenda, which will be sent to all prospective bidders and plan holders. Neither The University of Alabama nor the Designer will be responsible for verbal answers or instructions regarding intent or meaning of the Contract Documents.

c. Should a conflict, inconsistency, ambiguity, omission, or error occur in or between the information at the on-site and the Specifications, the bidder shall notify UA Purchasing prior to submission to his bid, the bidder shall have asked for and obtained the written

decision or clarification from Marlene Thomas, Senior Buyer, The University of Alabama Purchasing Department, 205 348-5552, or email address mthomas@fa.ua.edu as to the method, materials or equipment which will be required to perform the Work.

9.10 PREPARATION OF BIDS

a. Bid Form

(1) Bids must be submitted on the Bid Form as contained in the bid documents.

(2) All information requested of the bidder on the Bid Form must be filled in. The form must be completed by typewriter or hand-printed in ink.

(3) Identification of Bidder: On the first page of the Bid Form the bidder must be fully identified by completing the spaces provided for:

(a) the legal name of the bidder,

(b) the state under which laws the bidder's business is organized and existing,

(c) the city (and state) in which the bidder has its principal offices,

(d) the bidder's business organization, i.e., corporation, partnership, or individual (to be indicated by marking the applicable box and writing in the type of organization if it is not one of those listed), and

(e) The partners or officers of the bidder's organization, if the bidder is other than an individual. If the space provided on the Bid Form is not adequate for this listing, the bidder may insert "See Attachment" in this space and provide the listing on an attachment to the Bid Form.

(4) All bid items requested in the Bid Form, including alternate bid prices and unit prices for separate items of the Work, must be bid. If a gross sum of bid items is requested in the Bid Form, the gross sum shall be provided by the bidder.

(5) In the space provided in the Bid Form under "Bidder's Alabama License", the bidder must insert his or her current general contractor's state license number, current bid limit, and type(s) of work for which bidder is licensed.

(6) The Bid Form shall be properly signed by the bidder. If the bidder is:

(a) an individual, that individual or his or her "authorized representative" must sign the Bid Form;

(b) a partnership, the Bid Form must be signed by one of the partners or an "authorized representative" of the Partnership;

(c) a corporation, the president, vice-president, secretary, or "authorized representative" of the corporation shall sign and affix the corporate seal to the Bid Form.

As used in these Instructions to Bidders, "authorized representative" is defined as a person to whom the bidder has granted written authority to conduct business in the bidder's behalf by signing and/or modifying the bid. Such written authority shall be signed by the bidder (the individual proprietor, or a member of the Partnership, or an officer of the Corporation) and shall be attached to the Bid Form.

(7) Interlineations, alterations or erasures on the Bid Form must be initialed by the bidder or its "authorized representative".

b. Bid Guaranty

(1) The Bid Form must be accompanied by a cashier's check, drawn on an Alabama bank, or a Bid Bond, executed by a surety company duly authorized and qualified to make such bonds in the State of Alabama, payable to The University of Alabama.

(2) If a Bid Bond is provided in lieu of a cashier's check, the bond shall be on the Bid Bond form as stipulated in the bid documents.

(3) The amount of the cashier's check or Bid Bond shall not be less than five percent of The University of Alabama's estimated cost of the Work or of the Contractor's bid, but is not required to be in an amount more than ten thousand dollars.

9.11 DELIVERY OF BIDS

a. Bids will be received until the time set, and at the location designated, in the Advertisement for Bids unless notice is given of postponement. No bid will be accepted or considered which has not been received prior to the time set for opening bids.

b. Each bid shall be placed, together with the bid guaranty, in a sealed envelope. On the outside of the envelope the bidder shall write in large letters the assigned bid number, below which the bidder shall write the name of the Work bid on, the name of the bidder, and the bidder's current general contractor's state license number. Failure to do this will result in returning envelope unopened.

c. Bids may be delivered in person or by mail if ample time is allowed for delivery. When sent by mail, preferably special delivery or registered, the sealed envelope containing the bid, marked as indicated above, shall be enclosed in another envelope for mailing. Bidder bears the sole responsibility for ensuring that its bid is delivered to the place and prior to the submission deadline specified in the Advertisement for Bids.

9.12 WITHDRAWAL OR REVISION OF BIDS

a. A bid may be withdrawn prior to the time set for opening of bids, provided a written request to withdraw its bid, executed by the bidder or the bidder's "authorized representative", is filed with The University of Alabama prior to that time. If a timely request to withdraw bid is received, the bid will then be returned to the bidder unopened.

b. A bid which has been sealed in its delivery envelope may be revised by writing the amount of the change in price on the outside of the delivery envelope over the signature of the bidder or the bidder's "authorized representative" if done so prior to the time set for opening bids. In revising the bid in this manner, the bidder must only write the amount of the change in price on the envelope and must not reveal the bid price.

c. Written communications, signed by the bidder or its "authorized representative", to revise bids will be accepted if received by The University of Alabama prior to the time set for opening bids. The University of Alabama will record the instructed revision upon opening the bid. Such written communication may be by facsimile if so stipulated in Supplemental Instructions to Bidders. In revising the bid in this manner, the bidder must only write the amount of the change in price and must not reveal the bid price.

d. Except as provided in Article 11, 'Errors in Bid' of these Instructions to Bidders, no bid shall be withdrawn, modified, or corrected after the time set for opening bids.

9.13 IRREGULAR BIDS

Bids may be rejected if they are incomplete or contain any alterations or erasures that are not initialed, additions, conditional bids, alternate bids unless called for, or irregularities of any kind.

9.14 ERRORS IN BID

a. Errors and Discrepancies in the Bid Form

In case of an error in the extension of prices in bids, the unit price will govern

b. Mistakes within the Bid

If the low bidder discovers a mistake in its bid, the low bidder may seek withdrawal of its bid without forfeiture of its bid guaranty under the following conditions:

(1) Timely Notice: The low bidder must notify Marlene Thomas, Senior Buyer, The University of Alabama Purchasing Department, Fax 205 348-8706 or email address mthomas@fa.ua.edu in writing, within three working days after the opening of bids, that a mistake was made. This notice must be given within this time frame whether or not award has been made.

(2) Substantial Mistake: The mistake must be of such significance as to render the bid price substantially out of proportion to the other bid prices.

(3) Type of Mistake: The mistake must be due to calculation or clerical error, an inadvertent omission, or a typographical error which results in an erroneous sum. Mistakes of law, judgment, or opinion are specifically excluded from these criteria.

(4) Documentary Evidence: Clear and convincing documentary evidence of the mistake must be presented to Marlene Thomas, Senior Buyer, The University of Alabama Purchasing Department, Fax 205 348-8706 or email address

mthomas@fa.ua.edu as soon as possible, but no later than three working days after the opening of bids.

c. The University of Alabama's decision regarding a low bidder's request to withdraw its bid without penalty shall be made within 10 days after receipt of the bidder's evidence. Upon withdrawal of bid without penalty, the low bidder shall be prohibited from:

(1) Doing work on the project as a subcontractor or in any other capacity.

(2) Bidding on the same project if it is re-bid.

9.15 DISQUALIFICATION OF BIDDERS

Any bidder(s) may be disqualified from consideration for contract award for the following reasons:

a. Collusion:

Any agreement or collusion among bidders or prospective bidders in restraint of freedom of competition to bid at a fixed price or to refrain from bidding or otherwise shall render the bids void and shall cause the bidders or prospective bidders to be disqualified from submitting further bids to The University of Alabama on future lettings.

b. Advance Disclosure:

Any disclosure in advance of the terms of a bid submitted in response to an Advertisement for Bids shall render the proceedings void and require re-advertisement and re-bid.

c. Failure to Settle Other Contracts:

The University of Alabama may reject a bid from a bidder who has not paid, or satisfactorily settled, all bills for labor and material on other contracts in force at the time of letting, completion of punch list, warranties and closeout documents.

9.16 CONSIDERATION OF BIDS

After the bids are opened and read publicly, the bid prices will be made public. Until the final award of the Contract, however, The University of Alabama reserves the right to reject any and all bids and to waive technical errors if, in its judgment, the best interests of The University of Alabama will be promoted.

9.17 AWARD OF CONTRACT

a. The contract shall be awarded to the lowest responsible and responsive bidder, based upon pricing and ability to complete project in the time frame allotted, unless The University of Alabama finds that all the bids are unreasonable or that it is not in the best interest of The University of Alabama to accept any of the bids. A responsible bidder is one who, among other qualities determined necessary for performance, is competent, experienced, and financially able to perform the contract. A responsive bidder is one who submits a bid that complies with the terms and conditions of the Advertisement for Bids and the bid documents. Minor irregularities in the bid shall not defeat responsiveness.

b. A bidder to whom award is made will be notified by telegram, confirmed facsimile, or letter to the address shown on the Bid Form at the earliest possible date. Unless other time frames are stipulated in Supplemental Instructions to Bidders, the **maximum time frames allowed** for each step of the process between the opening of bids and the issuance of an order to proceed with the work shall be as follows:

(1) Award of contract by The University of Alabama by means of issuance of Purchase Order	Within 60 calendar days after the opening of the bids
(2) Contractor's return of bonds and evidence of insurance, to The University of Alabama	Within 3 calendar days notice of intent to award
(3) The University of Alabama's approval of the Contractor's bonds and evidence of insurance	Within 3 calendar days after the Contractor presents complete and acceptable documents to Marlene Thomas, Senior Buyer, The University

	of Alabama Purchasing Department, Fax 205 348-8706 or email address mthomas@fa.ua.edu.

4) Notice to Proceed issued to the Contractor in the form of a University Purchase Order	Within 15 calendar days after final execution of Construction Contract by The University of Alabama, and by the Governor if his or her signature on the contract is required by law

The time frames stated above, or as otherwise specified in the bid documents, may be extended by written agreement between the parties. Failure by The University of Alabama to comply with the time frames stated above or stipulated in Supplemental Instructions to Bidders, or agreed extensions thereof, shall be just cause for the withdrawal of the Contractor's bid, and contract, without forfeiture of bid security.

c. Should the successful bidder or bidders to whom the contract is awarded fail to execute the Construction Contract and furnish acceptable Performance and Payment Bonds and evidence of insurance within the specified period, The University of Alabama shall retain from the bid guaranty, if it is a cashier's check, or recover from the principal or the sureties, if the guaranty is a bid bond, the difference between the amount of the contract as awarded and the amount of the bid of the next lowest bidder. If no other bids are received, the full amount of the bid guaranty shall be retained or recovered as liquidated damages for such default. Any sums so retained or recovered shall be the property of The University of Alabama.

d. All bid guaranties, except those of the three lowest bona fide bidders, will be returned immediately after bids have been checked, tabulated, and the relation of the bids established. The bid guaranties of the three lowest bidders will be returned as soon as the contract bonds and the contract of the successful bidder have been properly executed and approved. When the award is deferred for a period of time longer than 15 days after the opening of the bids, all bid guaranties, except those of the potentially successful bidders, shall be returned. If any potentially successful bidder agrees in writing to a stipulated extension in time for consideration of its bid, The University of Alabama may permit the potentially successful bidder to substitute a satisfactory bidder's bond for the cashier's check submitted with its bid as a bid guaranty.

e. If no bids or only one bid is received, The University of Alabama may either re-advertise for bids or direct that the Work shall be done by force account under its direction and control, or negotiate for the Work through the receipt of informal bids not subject to the requirements of Title 39-2-6, Code of Alabama (1975).

9.18 APPROVAL OF CONTRACT

No Contract is binding upon The University of Alabama until it has been executed by means of issuance of a University of Alabama Purchase Order.

9.19 REFERENCES

References are required with your bid response. References must include at least three (3) installations of similar scope to the project specified herein and for which similar equipment has been successfully maintained by the bidder for the past three (3) years in terms of manufacturer, size, installation and features. Failure to comply with this requirement may result in the elimination of your bid response from consideration.

9.20 DEFINITIONS

Wherever the following abbreviations and terms, or pronouns in place of them, are used in the Contract Documents, the intent and meaning shall be as interpreted as follows:

1. THE UNIVERSITY OF ALABAMA: The Board of Trustees of The University of Alabama, a corporation, the Party of the First Part to the Contract Agreement, acting through its authorized representatives.

2. BID: The written offer for the Work contemplated, made out and submitted by the Bidder in the required manner, on the prescribed Bid Form, property signed, and guaranteed.

3. BIDDER: The person or persons, firm, partnership, association, corporation, or combination thereof, submitting a Bid for the Work, or any portion thereof, acting directly or through a duly authorized representative who has met the licensing requirements for general contracting as required by Title 34, Chapter 8, Code of Alabama (1975), as amended.

4. COMMISSION: The Alabama Building Commission, or any agency that may be designated by the Legislature as its successor.

5. CONTRACT AGREEMENT: The written Contract Agreement for Construction executed between The University of Alabama and the successful Bidder, covering the performance of the Work, by which the Contractor is bound to perform the Work and to furnish the labor, materials, and equipment under the terms of the Contract Documents, and by which The University of Alabama is obligated to compensate the Contractor therefore at the mutually established and accepted rate or price, or as hereinafter provided.

6. CONTRACT BONDS: The approved bonds, required by Chapter 1, Title 39, Code of Alabama (1975), as amended, and furnished by the Contractor and its Surety to guarantee both completion of the Contract in accordance with the Contract Documents and prompt payment to all persons supplying labor, materials, supplies, etc.

7. CONTRACTOR: The person or persons, company, firm, partnership, association, corporation, limited liability company, cooperative or combination thereof, the Party of the Second Part to the Contract Agreement, acting directly or through its agents or employees.

8. DESIGNER: The professional person, firm, association, or corporation who, having met requirements of Title 34, Code of Alabama (1975), as amended, has indicated by seal or signature and license number that full responsibility has been accepted for the design, and who has been employed by The University of Alabama, or, in case of the termination of his employment, his successor designated by The University of Alabama, to furnish the drawings and specifications in the Contract Documents.

9. DIRECTOR: The Director, Technical Staff, or the State Building Commission, acting either upon his own initiative or through the Project Manager or other duly authorized Supervisors and Inspectors, acting severally within the scope of the particular duties entrusted to them or the authority given them.

10. MODIFICATIONS OF THE GENERAL CONDITIONS: Changes or modifications of the parts of these General Conditions.

11. NOTICE TO PROCEED: A proceed order issued by The University of Alabama, will be in the form of a purchase order. 12. SPECIAL CONDITIONS: Additional special or general requirements that are necessary and peculiar to the particular project and which are not included in the parts of these General Conditions.

13. SPECIFICATIONS: The general term comprising the Statutory and Procedural Documents, General Conditions of the Contract, the detailed Specification requirements, together with all modifications thereof and all Addenda thereto.

14. SUBCONTRACTOR: Any properly qualified individual, firm, association, or corporation undertaking the performance of any part of the Work under the terms of the Contract Documents by virtue of an agreement between the Subcontractor and the Contractor with the prior written approval of The University of Alabama.

15. SURETY: The corporate body, licensed under the laws of Alabama, bound with and for the Contractor for the full and complete performance of the Contract and also for the payment of all claims recoverable under the Contract Bonds.

16. THE PROJECT: The total work described in the Contract Documents.

17. THE WORK: The work shall mean whatever is done or required of the Contractor to perform and complete its duties under the Contract Documents including, without limitation, the following: construction of the whole or designated part of the Project; furnishing of any required surety bonds and insurance; and the provision or furnishing of all labor, supervision, services, materials, supplies, equipment, fixtures, appliances, facilities, tools, transportation, storage, power, permits and licenses required of the

Contractor, fuel, heat light cooling and all other utilities as required by the Contract Documents.

18. INTENT: The intent of the Contract Documents is to include all labor, supplies, materials, equipment, water, fuel, tools, utility, insurance and transportation services, and all other incidental services and expenses necessary or required for the complete, correct, proper and timely execution of the Work.

9.21 MATERIALS, EQUIPMENT, AND EMPLOYEES

Unless otherwise stipulated, the Contractor shall furnish all material, equipment, tools, labor, water, light, power, transportation, other services or facilities, and incidentals for the proper execution and completion of the Work. Unless otherwise stipulated, Contractor warrants that all materials, products, systems and equipment incorporated in the Work shall be new and without apparent damage, be of quality equal to or higher than that required by the Contract Documents, be merchantable, and free of defects.

Contractor warrants all labor and services shall be performed in the best and most workmanlike manner by persons skilled in their respective assignments or trades, shall comply with the Contract Documents, and shall be free of defects. Workmen whose work is unsatisfactory, or who are considered unfit or unskilled, or otherwise objectionable, shall be removed from the Work.

9.22 ROYALTIES; PATENTS; AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend all suits or claims for infringement of any copyright or patent right and shall hold and save harmless the Awarding Authority and its agents and employees from any liability or loss of any nature or kind, including cost and expenses, for or on account of any copyright or any patented or unpatented invention, process, article, or appliance manufactured or used in the performance of the Contract, including its use by the Awarding Authority.

If the Contractor has information that any process, article or item specified or delineated by the Contract Documents is an infringement of a patent or copyright, it shall promptly give such information to the Awarding Authority.

9.23 SURVEYS, PERMITS, LAWS, AND REGULATIONS

The Contractor shall provide competent professional services to execute the Work in accordance with contract requirements. Contractor shall verify the figures given for the contours, approaches and locations shown on the Drawings before undertaking any construction work and be responsible for the accuracy of the finished work.

The Contractor shall establish all base lines for the location of the principal components of the Work and make all detail surveys necessary for construction, including slope stakes, batter boards and other working points, lines and elevations.

If the Contractor finds any errors or discrepancies, or that any previously established references have been destroyed or misplaced, Contractor shall promptly notify The University of Alabama.

9.24 PROTECTION OF WORK AND PROPERTY

The Contractor shall at all times adequately maintain, guard and protect its own work from damage, and safely guard and protect The University of Alabama's property from injury or loss arising in connection with the Project.

Contractor shall adequately protect adjacent property as provided by law and Contract Documents.

Any damage to existing structures or the interruption of utility services shall be repaired or restored promptly at the expense of the Contractor.

The Contractor shall provide and maintain all passageways, guard fences, lights, and other facilities required for protection by state or municipal laws and regulations or local conditions.

The Contractor shall take all necessary precautions for the safety of public and employees on the Work and shall comply with all applicable provisions of federal, state, and municipal safety laws and building codes to prevent accidents or injury to persons on or about or adjacent to the premises where the work is being performed.

9.25 CLIMATE CONDITIONS

The Contractor shall suspend any work that may be subject to damage by climatic conditions.

9.26 INSPECTION OF THE WORK

The University of Alabama, or any agency having jurisdiction, and their representatives shall, for inspection purposes, have access at all times to the Work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for such access and inspection.

All materials, workmanship, processes of manufacture, and methods of construction, if not otherwise stipulated, shall be subject to inspection, examination, and test by The University of Alabama (or its duly authorized representatives) at any and all places where such manufacture and/or construction are being performed. The University of Alabama shall have the right to reject defective material and workmanship or require its correction. Rejected workmanship shall be satisfactorily corrected, and rejected material shall be satisfactorily replaced with proper material, without charge therefore, and the Contractor shall promptly segregate and remove the rejected material from the premises.

The University of Alabama may appoint or assign Inspectors, with designated duties and restricted authority, to inspect the work, or to make special inspections requested in advance by the Contractor, and to report the progress of the Work, and manner or procedure, quality of the material and workmanship, and compliance with the Contract Documents. Authorized inspectors shall have the authority to reject materials, workmanship, or equipment clearly defective or otherwise not in accordance with the Drawings and Specifications, but neither the presence nor absence of such inspectors shall relieve the Contractor from fully complying with all of the contract requirements.

No inspector has authority to revoke, alter, relax, or waive any requirements of the Contract Documents; to finally approve or accept any portion of the Work or to issue instructions contrary to the Drawings and Specifications, nor shall any inspector supervise and direct work for the Contractor, nor unreasonably interfere with the Contractor's operations beyond the extent necessary to make certain that the Work is being carried out according to the contract requirements.

Any advice which an inspector may give to the Contractor shall not be, nor construed to be, as binding on The University of Alabama in any way, nor release the Contractor from its duty to comply with all of the contract requirements.

The Contractor shall furnish promptly, without extra compensation, all reasonable facilities, labor, services and material necessary for safe and convenient access, inspection, and tests that may be required. All inspections and tests will be performed in such a manner as not to cause unnecessary delay of the Work. Special, full size and performance tests shall be as described in Sections of the Specifications. The Contractor may be charged any extra cost of inspection incurred by The University of Alabama on account of material and workmanship not being ready at the time set by the Contractor for an inspection or test.

Should The University of Alabama consider it necessary or advisable, at any time before final acceptance of the Work, to make an examination of work already completed by uncovering, or removing or tearing out same, the Contractor shall, on request, promptly furnish all necessary facilities, labor, services and material. If such work is found to be defective the Contractor shall defray all expense of such examination and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the Contract Documents, the work of examination and replacement will be considered and compensated for as Extra Work ordered by The University of Alabama and, in addition, if completion of the Work has been delayed thereby, an extension of time will be granted for such delay.

In order for this project to be "Substantially Complete" the following is required: Owner's receipt of the pre-final closeouts; a final inspection held and the project declared "Substantially Complete", in writing, signed by the Architect (if applicable) and the Owner. "Substantial Completion" means the designated work is sufficiently complete, in accordance with the contract documents, such that the Owner may occupy or utilize the work for the use intended, as represented by the contract documents. The date of Substantial Completion is the date upon which the contract time stops and all warranties for the designated work commence.

9.27 SUPERINTENDENCE AND SUPERVISION

The Contractor shall supervise, direct and coordinate the Work, using its best skill, effort, knowledge, and attention. Contractor shall employ and maintain at the Project only competent supervisory personnel. Contractor's superintendent, whose qualifications are acceptable to The University of Alabama, shall be at the site at all times during construction activity, and shall be authorized to act for Contractor in its absence. The Contractor shall not remove from the work a superintendent who is satisfactory to both Contractor and The University of Alabama, unless his

employment is terminated. Contractor shall be responsible to The University of Alabama for any acts or omissions of the Contractor, its employees and others engaged in the Work on behalf of the Contractor.

In general, important verbal communications will be confirmed in writing to the Contractor, and these and other communications always upon written request of the Contractor.

The Contractor shall read, carefully study and compare all Drawings, Specifications, other instructions and related data, and promptly report in writing to The University of Alabama, any ambiguity, conflict, inconsistency, discrepancy, error, or omission that it may discover. Contractor shall be liable for the performance and the cost of any necessary corrections resulting from adjustments or modifications of Contract Documents made without prior approval. If Contractor performs any of the Work knowing it involves a recognized error, conflict, inconsistency, discrepancy, or omission in the Contract Documents without notice to The University of Alabama, the Contractor shall bear the responsibility for such performance and shall bear the cost of correction. If this condition is not observed, The University of Alabama has the right to shut down the project immediately without any additional cost to The University of Alabama.

9.28 DELAYS; EXTENSION OF TIME

Delays: If the Contractor is delayed in progressing any task which at the time of the delay is then critical or which during the delay became critical, as the sole result of an act or omission of The University of Alabama or of any other contractor on the site employed by The University of Alabama, by strikes, lockouts, fires, abnormal floods, tornadoes, or other cataclysmic phenomenon of nature, or by causes beyond the Contractor's control, then Contractor may be entitled to an extension of time in which to complete the Work, provided however, that the Contractor shall give written notice of such cause to The University of Alabama not more than seven (7) days after the occurrence of the event or the first appearance of the condition giving rise to the claim and shall set forth in detail the Contractor's basis for requiring additional time in which to complete the Work. Such time extensions shall only be allowed upon approval of The University of Alabama. The failure of the Contractor to give such notice within seven (7) days shall constitute a waiver of any claim for an extension of time in which to complete the Work.

Extensions of time shall not be approved for delays due to rain, wind, flood, or other natural phenomenon of normal intensity for the locality, nor for any delay occurring more than seven (7) days before written claim, therefore is submitted by the Contractor.

Extension of Time: In the event any material changes, alterations or additions are made to the Work which will require additional time for the execution of any work under the Contract Agreement, the time of completion of the work may be extended by such a period of time as may be approved by The University of Alabama, provided that in such case the Contractor shall make a written request for a time extension to The University of Alabama within seven (7) days after being notified in writing of such material changes, alterations or additions. No extensions of time shall be given for any minor changes, alterations or additions in the Work. The failure by Contractor to make such written request for a time extension within seven (7) days shall constitute a waiver of any claim for an extension of time in which to complete the Work. The Contractor shall not be entitled to any reparation or compensation on account of additional time or extensions of time required for the execution of the Work.

9.29 CORRECTION OF WORK BEFORE FINAL PAYMENT

Any defective work, whether the result of poor workmanship, the use of defective materials, damage through carelessness of the Contractor or its employees, or any other cause, shall be removed from the premises within ten (10) days after written notice is given by The University of Alabama, and promptly replaced and re-executed by the Contractor in accordance with the Contract requirements and without expense to The University of Alabama. The Contractor shall also bear the expense of making good all work of The University of Alabama or its other contractors destroyed or damaged by such removal and replacement.

9.30 CORRECTION OF WORK AFTER FINAL PAYMENT

Verification and approval of the Final Application for Payment and the making of the Final Payment by The University of Alabama shall not relieve the Contractor of responsibility for faulty materials or workmanship. The University of Alabama shall promptly give notice of observed defects due to faulty materials or workmanship, and any damage to other work resulting there from. In accordance with the terms of any general or special guarantees provided in the Contract, the Contractor shall promptly replace any such defects discovered within one year from the date of written acceptance of the Work or Final Payment therefore, whichever is prior.

9.31 THE UNIVERSITY OF ALABAMA'S RIGHT TO CORRECT DEFICIENCIES

Upon failure or neglect by the Contractor to properly prosecute or perform the Work in accordance with the Contract Documents and after ten (10) days written notice to the Contractor by The University of Alabama, The University of Alabama, without prejudice to any other remedy it may have, may correct such deficiencies and may deduct the actual cost thereof from payment then or thereafter due to the Contractor.

9.32 THE UNIVERSITY OF ALABAMA'S RIGHT TO TERMINATE CONTRACT

If the Contractor should be adjudged a bankrupt, or if Contractor should make a general assignment for the benefit of its creditors, or if a receiver should be appointed on account of Contractor's insolvency, or if Contractor should persistently or repeatedly refuse or fail, except in cases for which an extension of time is provided, to supply enough properly skilled workmen or proper materials, or if Contractor should fail to make prompt payment to Subcontractors for material or labor, or persistently disregard laws, ordinances, or the instructions of The University of Alabama, or should otherwise be guilty of a substantial violation of any provision of the Contract, then The University of Alabama, after giving the Contractor and its Surety, ten (10) days' written notice, may, without prejudice to any other right or remedy, terminate the employment of the Contractor and take possession of the premises and of all material, tools, equipment, and appliances thereon and finish the Work by whatever method The University of Alabama may deem expedient. In such cases the Contractor shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the contract price shall exceed the expense of finishing the Work, including compensation for additional architectural, engineering, managerial, and administrative services, such excess shall be paid to the Contractor. If such expense shall exceed such unpaid balance, the Contractor shall pay the difference to The University of Alabama upon demand.

9.33 CONTRACTOR'S RIGHT TO TERMINATE THE CONTRACT

If the Work should be stopped under an order of any court, or other public authority, for a period of ninety (90) days, through no act or fault of the Contractor or of anyone employed by it, then the Contractor may, after fourteen (14) days' written notice to The University of Alabama, terminate this Contract and The University of Alabama will reimburse the Contractor for all work properly executed and any loss sustained upon any plant or materials and any other proper item of damage.

9.34 APPLICATIONS FOR PARTIAL AND FINAL PAYMENTS

Unless otherwise provided in the "Special Conditions" or the "Contract Agreement", The University of Alabama will make partial payments to the Contractor as soon as practicable, on the basis of a duly certified and approved estimate of work as prepared by the Contractor on an Application for Partial Payment form approved by the Project Manager and The University of Alabama The Contractor shall, within ten (10) days after the Notice to Proceed, submit to The University of Alabama on the Application for Payment form, a complete breakdown or schedule of values of the contract price showing the value assigned to each of the various parts of the Work, including an allowance for overhead and profit, aggregating the total contract price, and divided to facilitate payments to Subcontractors. Upon approval by The University of Alabama, this breakdown of the contract price, unless later found to be in error, shall be used as a basis for all Applications for Payment. The Contractor shall supply with its schedule of values such data as The University of Alabama may require to substantiate its accuracy. The Contractor shall not imbalance its schedule of values nor artificially inflate any element thereof.

An Application for Partial Payment may include the Contractor's cost of materials not yet incorporated in the Work, but delivered and suitably stored.

In making partial payments, there shall be retained (five) 5 percent on the estimated amounts complete plus stored materials until completion of fifty (50) percent of the contract, after which

no additional retainage will be withheld. This retainage will be held by The University of Alabama until final completion, advertisement, and acceptance of all work covered by the Contract, when Final Payment of the entire balance found to be due will be made.

The Contractor, immediately after being notified by The University of Alabama that all other requirements of the Contract Documents have been completed, shall give notice of said completion by an advertisement for a period of four (4) successive weeks in some newspaper of general circulation published within the county where the Work was performed. Proof of publication of said Notice shall be made in duplicate by the Contractor to The University of Alabama by affidavit of the publisher which shall include an original printed copy of the Notice published. Final Payment shall be due as noted by The University of Alabama's verification of the Final Application for Payment.

9.35 VERIFICATION, CERTIFICATION, AND APPROVALS FOR PAYMENT

When the Contractor has made application for Partial or Final Payment, The University of Alabama shall verify the Application for Payment and shall make payment to the Contractor for such amount as The University of Alabama determines to be properly due, or state in writing to the Contractor The University of Alabama's reasons for withholding verification and payment in whole or in part.

No such verification nor payment made to the Contractor, nor partial or entire use or occupancy of the work by The University of Alabama shall be an acceptance of any work or materials not in accordance with the Contract.

All materials and work covered by partial payments made shall become the sole property of The University of Alabama, but this provision shall not be construed as relieving the Contractor from the sole responsibility for the care and protection of materials and work upon which payments have been made or the restoration of any damaged work or as a waiver of The University of Alabama's right to require the fulfillment of all the terms of the Contract Documents by the Contractor.

9.36 PAYMENTS WITHHELD

The University of Alabama may withhold payment of the whole, or any part, of a verified or approved Application for Payment to the extent necessary to protect it against loss on account of any of the following causes discovered subsequent to its verification or approvals:

a. Defective Work not remedied by the Contractor nor, in the opinion of The University of Alabama, likely to remedied by Contractor;

b. Evidence indicating probable filing of claims by other parties against the Contractor;

c. Failure of the Contractor to promptly make payments to Subcontractors, or for materials, labors, foodstuffs, and supplies;

d. Damage to another contractor under a separate contract with The University of Alabama; or

e. Evidence indicating probable filing of claims by third parties against The University of Alabama or The University of Alabama's property.

f. A dollar value will be accessed for final inspection punch list items and held in addition to retainage until completed.

g. When the above causes are removed, payments withheld will then be paid.

9.37 CONTRACT BONDS

In order to insure the faithful performance of each and every condition, stipulation, and requirement of the Contract, and to indemnify and save harmless The University of Alabama from any and all damages, either directly or indirectly, the successful Bidder to whom the Contract is awarded shall, within fifteen (15) calendar days after the Contract Agreement has been presented to Contractor for signature, unless otherwise stipulated, furnish at its own expense, and file with The University of Alabama, an acceptable Surety Bond in an amount equal to one hundred (100%) percent of the contract price of the Contract as awarded. Said Bond shall be made on the approved bond form, shall be furnished by a reputable surety company authorized to do business in the State of Alabama, shall be countersigned by an authorized agent resident to do business in the State of Alabama, shall be countersigned by an authorized agent resident in the State who is qualified for the execution of such instruments, and shall have attached thereto power of attorney of the signing official. In case of default on the part of the Contractor, all expenses incident to ascertaining and collecting losses suffered by The University of Alabama under the Bond, including architectural, engineering, administrative, and legal services shall lie against the Contract Bond for Performance of the Work.

In addition thereto the successful Bidder to whom the Contract is awarded shall, within fifteen (15) days after the Contract Agreement has been presented to Contractor for signature unless otherwise stipulated, furnish at its expense, and file with The University of Alabama, an acceptable surety bond for Payment of Labor, Materials, Feedstuffs, and Supplies, payable to The University of Alabama in amount not less than fifty (50%) percent of the contract price, with the obligation that the Contractor shall promptly make payment to all persons furnishing him or them with labor, materials, feedstuffs, or supplies for, or in, the prosecution of the Work, including the payment of reasonable attorneys fees incurred by successful claimants or plaintiffs in suits on said bond. The date of neither bond shall be earlier than the date of the Contract Agreement.

Bonds shall remain in force during the entire guarantee period stipulated in General Conditions, Article 11 CORRECTION OF WORK AFTER FINAL PAYMENT.

9.38 DAMAGES

Should either party to the Contract suffer damages because of any wrongful act or neglect of the other party or of anyone employed by it, claim shall be made in writing to the other party within a reasonable time of the first observance of such damage, and not later than the date of the Application for Final Payment, except as expressly stipulated otherwise in the case of faulty work or materials.

9.39 CLAIMS

Neither the Final Payment nor any part of the retained percentage shall become due until the Contractor, if required, shall deliver to The University of Alabama a complete release of all claims arising out of the Contract, or receipts in lieu thereof and, if required in either case, an affidavit that so far as Contractor has knowledge or information the releases and receipts include all the labor and material for which a claim could be filed; but the Contractor may, if any Subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to The University of Alabama, to indemnify him against any claims. If any claim remains unsatisfied after all payments are made, the Contractor shall refund to The University of Alabama all moneys that the latter may be compelled to pay in discharging such a claim including all costs and a reasonable attorney's fee.

9.40 ASSIGNMENT

The Contractor shall not assign the Contract or sublet it as a whole without the written consent of The University of Alabama, nor shall the Contractor assign any monies due or to become due to it hereunder without the previous written consent of The University of Alabama.

9.41 MUTUAL RESPONSIBILITY OF CONTRACTORS

If the Contractor or any of its Subcontractors cause any loss or damage to any separate contractor with a prior, concurrent, or subsequent contract on the Work or on the site, or cause any undue delay to such separate contractor on the Work or on the site, and if such contractor makes claim against The University of Alabama, on account of any loss so sustained, The University of Alabama shall notify the Contractor who shall indemnify and save harmless The University of Alabama against any expenses arising there from.

9.42 SEPARATE CONTRACTS

The University of Alabama may award other contracts for additional new construction, buildings or equipment, or for reconstruction, alteration, equipment, and improvements of existing buildings on the site, and the Contractor shall fully cooperate in the storage of materials and the detailed execution of work, coordinate and integrate its operations with such other contractors, and carefully fit its own work to that provided under other contracts. The Contractor shall not commit or permit any act which will interfere with the performance of work by any other contractor. The Contractor, including its Subcontractors, shall keep informed of the progress and the detail work of other contractors and shall notify The University of Alabama immediately of lack of progress or defective workmanship on the part of other contractors, where such delay or such defective workmanship will interfere with its own operations of the Work.

9.43 SUBCONTRACTS

Concurrent with the transmittal of the executed Contract Agreement by the Contractor, Contractor shall submit in writing to The University of Alabama for approval the names of the Subcontractors proposed for the Work. Subcontractors that have been approved may not be changed thereafter except with the approval of The University of Alabama.

The Contractor shall not engage any subcontractor to whom The University of Alabama may have a reasonable objection, but it will not be required to engage any subcontractor against whom Contractor itself has a reasonable objection.

The Contractor shall be as fully responsible to The University of Alabama for the acts and omissions of Subcontractors, and of persons employed by them, as Contractor is for the acts and omissions of persons directly employed by it.

Nothing contained in the Contract Documents shall create, or be construed as creating, privities of contract or any contractual relationship or agreement between The University of Alabama and any Subcontractor, person or entity other than the Contractor.

9.44 RELATIONS OF CONTRACTOR AND SUBCONTRACTORS

The Contractor shall cause appropriate provisions to be inserted in all Subcontracts relative to the Work, to bind Subcontractors to the Contractor by the terms of the Contract Documents insofar as applicable to the work of Subcontractors, and to give the Contractor rights against the Subcontractor that correspond to those rights afforded to The University of Alabama against the Contractor herein, including the same power as regards terminating any subcontractor that The University of Alabama may exercise over the Contractor under any provisions of the Contract Documents.

The Contractor shall be solely responsible for the coordination of Subcontractors engaged upon the Work.

The Contractor, without additional expense to The University of Alabama, shall utilize the services of specialty subcontractors on those parts of the Work which are specified to be performed by specialty subcontractors.

The University of Alabama will not undertake to settle any differences between the Contractor and its Subcontractors.

9.45 THE UNIVERSITY OF ALABAMA'S DECISIONS

Except as hereinabove provided, any dispute, claim, or question concerning the interpretation or meaning of the Contract Documents, or concerning a breach of the Contract, shall be submitted in writing to The University of Alabama and its decision shall be returned to the Contractor in writing.

9.46 USE OF PREMISES

The Contractor shall take every precaution against injuries to persons or damages to property.

The Contractor shall store its apparatus, materials, supplies, and equipment in such orderly fashion at the site of the Work as will not unduly interfere with the progress of its work or the work of any other contractors.

Unless otherwise provided, temporary storage sheds, shops, and office facilities may be erected on the premises with the approval of The University of Alabama. Such temporary buildings and/or utilities shall remain the property of the Contractor and be removed at its expense upon completion of the Work, unless The University of Alabama authorizes their abandonment without removal.

Necessary crossings of curbing, sidewalks, roadways and parkways shall be protected against damage, and any damage shall be repaired by or at the expense of the Contractor.

The Contractor shall not place upon the Work, or any part thereof, loads inconsistent with the safety of that portion of the Work.

The Contractor shall perform any necessary work after regular working hours or on Sundays or legal holidays without extra compensation.

The Contractor shall provide and maintain such sanitary accommodations for the use of its employees and those of its Subcontractors as may be necessary to comply with the requirements and regulations of the local and State Department of Health and other regulatory agencies.

9.47 CUTTING AND PATCHING

The Contractor shall do all necessary cutting, fitting, and patching to properly receive the Work and to make its several parts join together as required by the Specifications. After such cutting, Contractor shall replace or restore or repair all defective or patched work as required. Contractor shall not cut, excavate, or otherwise alter any work in a manner or by a method or methods that will endanger the Work, adjacent property, workers, the public, or the work of any other contractor.

The Contractor shall check the location of all sleeves, openings, slots, etc., for the piping, ducts, breeching, conduits, louvers, grilles, fans, etc., as they are laid out on the job.

Provision for openings, holes and clearances through walls, beams, floors, ceilings, and partitions shall be made and checked by the Contractor and/or its Subcontractor in advance for constructing such parts of the Work in order to avoid unnecessary, superfluous or dangerous cutting.

Unless otherwise specified, pipes passing through any parts of the Structure shall be provided with pipe sleeves two sizes larger than the pipe plus its insulation in order to provide independent movement.

Under no condition shall structural framing or other parts or members subjected to computed stress be cut or disturbed without the approval of the University. Any structural member which is cut must be restored by Contractor at its expense to its original strength by a method approved by the University.

In order to maintain design strengths, the University's approval shall also be obtained before cutting or drilling holes in concrete or masonry.

9.48 PERIODIC AND FINAL CLEANUP

The Contractor shall periodically clean up, and remove from the premises, all refuse, rubbish, scrap materials and debris to the end that at all times the premises are sanitary, safe, reasonably clean, orderly, and workmanlike. Trash and combustible materials shall not be allowed to accumulate inside buildings or elsewhere on the premises. At no time shall any rubbish be thrown from an opening.

Before final completion and final acceptance the Contractor shall remove from The University of Alabama's property, and from all public and private property, all tools, scaffolding, false work, temporary structures and/or utilities including the foundations thereof (except such as The University of Alabama permits in writing to remain); rubbish and waste materials; and all surplus materials, leaving the site clean and true to line and grade, and the Work in a safe and clean condition, ready for use and operation.

In addition to the above, the Contractor shall be responsible for the following special cleaning for all trades as the work shall have been completed:

1. Cleaning of all painted, enameled, stained, or baked enamel work: Removal of all marks, stains, fingerprints, and splatters from such surfaces.
2. Cleaning of all glass: Cleaning and removing of all stickers, labels, stains, and paint from all glass, and the washing and polishing of the interior and exterior of the same.
3. Cleaning or polishing of all hardware.
4. Cleaning all tile and floor finishes of all kinds: Removal of all splatters, stains, paint, dirt, and dust, and the washing and polishing of all floors as recommended by the manufacturer or as required by The University of Alabama.
5. Cleaning of all manufactured articles, materials, fixtures, appliances, and equipment: Removal of all stickers, rust stains, labels, and temporary covers; cleaning and conditioning of all manufactured articles, material, fixtures, appliances and electrical, heating, and air conditioning equipment as recommended or directed by the manufacturers, unless otherwise required by The University of Alabama; blowing out or flushing out of all foreign matter from all dust pockets, piping, tanks, pumps, fans, motors, devices, switches, panels, fixtures, boilers, or similar features; and freeing or cleaning identification plates on all equipment of excess paint and the polishing thereof.

9.49 GUARANTEE OF THE WORK

Except as otherwise specified in the Modifications of the General Conditions or in the Special Conditions, all work shall be guaranteed by the Contractor against defects of materials, equipment, or workmanship for one year from the date of Substantial Completion of the Contract. If, within any guarantee period, repairs or changes which, in the opinion of The University of Alabama, are required as the result of the use of materials, equipment, or workmanship which are inferior, defective, or not in accordance with the terms of the Contract Documents, the Contractor, promptly upon receipt of notice from The University of Alabama, and without expense to The University of Alabama, shall:

a. Place in satisfactory condition in every particular all of such guaranteed work, correcting all defects therein; and

b. Make good all damage to the building or site, or equipment or contents thereof, which is the result of the use of materials, equipment, or workmanship which are inferior, defective, or not in accordance with the terms of the Contract; and

c. Make good any work or material, or the equipment and contents of said building or site disturbed in fulfilling any such guarantee.

In any case wherein fulfilling the requirements of the Contract or of any guarantee embraced in or required thereby, the Contractor disturbs any work guaranteed under another contract, Contractor shall restore such disturbed work to a condition satisfactory to The University of

Alabama and guarantee such restored work to the same extent as it was guaranteed under such other contract.

If the Contractor, after notice, fails to proceed promptly to comply with the terms of the guarantee, The University of Alabama may have the defects corrected and the Contractor and its Surety shall be liable for all expense incurred.

All special guarantees applicable to definite parts of the Work that may be stipulated in the Contract Documents shall be subject to the terms of this paragraph during the first year of the life of such special guarantee.

9.50 USE OF FOREIGN MATERIALS

For public works projects to be financed entirely by the State of Alabama or subdivisions thereof in accordance with the provisions of Section 39-3-1, Code of Alabama (1975), the Contractor shall use only materials, supplies, and products manufactured, mined, processed or otherwise produced in the United States or its territories, if same are available at reasonable and competitive prices and are not contrary to any sole source specification implemented under Section 39-2-2(f), Code of Alabama (1975).

If Contractor breaches this agreement to use domestic products, and domestic products are not used, there shall be a downward adjustment of the contract price equal to any realized savings or benefits to the Contractor.

In accordance with the provisions of Section 39-3-4, Code of Alabama (1975), the Contractor shall use only steel produced in the United States or its territories when specifications in the Contract Documents require the use of steel. If, in the opinion of The University of Alabama, the procurement of such domestically produced steel products is impractical as a result of national emergency, national strike, or other causes, it may waive this restriction for building construction. If Contractor breaches this agreement to use domestic steel products, and domestic steel products are not used, the Contract Agreement shall be automatically revoked and Contractor shall not be entitled to any recoupment for labor or materials used up to the time of such revocation.

9.51 EQUAL OPPORTUNITY

The nondiscrimination clause contained in Section 202, Executive Order 11246, as amended by Executive Order 11375, relative to Equal Employment Opportunity for all persons without regard to race, color, religion, sex or national origin, and the implementing rules and regulations prescribed by the Secretary of Labor, are incorporated herein.

9.52 NO SMOKING POLICY

The Contractor shall strictly enforce “No Smoking” when working inside existing buildings and inside new construction.

9.53 PARKING REQUIREMENTS

A University of Alabama parking permit is not required within construction fenced areas. Parking outside of fenced areas requires permits. Permits can be obtained from UA Transportation Services Department, 103 Student Services Center (205) 348-8391. UA reserves the right to limit the number of permits and also reserves the right to restrict the areas of campus that the permit can be used.

9.54 QUALITY CONTROL

Control System: The Contractor shall establish a system of inspections and tests of his work and that of his subcontractors to insure that all applicable requirements of the specifications are met. The Contractor shall be diligent to insure that the quality of workmanship is satisfactory, that dimensional requirements are met, that defective materials are not used and that all required control and laboratory testing procedures are affected. Where specific testing procedures are not stipulated, the Contractor shall establish and conduct a test procedure to insure adherence to specified quality. The Contractor shall make an initial inspection of each phase of work as soon as a representative portion has been completed, and the Contractor shall make daily follow-up inspections, to insure that an acceptable quality of work is established and maintained. The Contractor shall perform a pre-final inspection and work off all punch list items prior to University and/or Designer inspection.

9.55 FINANCIAL STATEMENTS

Financial statements may be required from each vendor for the past three (3) years as criterion in the bid evaluation process. If requested the successful vendor will overnight these financial statements to assigned buyer within The University of Alabama Purchasing Department within seventy-two hours of request. Failure to provide the required information in the required time frame may eliminate your bid from consideration in the bid award.

9.56 INVOICING AND PAYMENTS

Itemized invoice(s) including the correct purchase order number and showing net pricing for each item for each order issued must be submitted to the University in order for payment to be made. Delivery tickets and statements will not substitute as an invoice.

In accordance with State of Alabama Title 39 requirements, a notice of final completion of the project will be published for four consecutive weeks in the Tuscaloosa News and a notice of final completion of the project will be posted on the Purchasing Department's bulletin board. The contractor will verify under oath that all bills have been paid in full. This verification will be in the form of a certification signed by the contractor and witnessed by a notary public. The certification form will be provided by The University of Alabama Purchasing Department. Partial payment of up to 95% of the total project price may be made prior to final completion notice being advertised. However, the remaining 5% must be held until completion of four weeks of advertising and then an additional 30 days before final payment can be released in accordance with State of Alabama Title 39 requirements.

9.57 WARRANTY

All items bid must be fully warranted for a minimum period of one (1) year or manufacturer's published warranty from the date of final installation commissioning acceptance whichever is the longer period of coverage. The successful vendor, during the warranty period, will report to the site and repair or replace any defective materials or workmanship without cost to the University. Warranty service shall be rendered within forty-eight (48) hours after request by the University. Warranty repairs must be completed within four (4) working days after vendor has been notified of the situation. The successful bidder shall guarantee all installation to be free from defects in materials and workmanship for a minimum of one (1) year from final acceptance by the University. Service or replacements of any defective items are to be provided by the successful bidder at no charge to the University during the period of guarantee. After the one (1) year warranty period expires, The University will have the option to purchase a maintenance agreement in increments of a year. **Specify all terms and conditions of the warranties associated with your products with your bid response.**

9.58 DELIVERY/ INSTALLATION REQUIREMENTS

Installation MUST be complete by January 31, 2013. The project must be completed in a timely manner. Installation and completion timeframe will be a criterion in the bid award. WHEN THE LOW BIDDER CANNOT MEET DELIVERY REQUIREMENTS, THE UNIVERSITY OF ALABAMA RESERVES THE RIGHT TO CONTACT THE NEXT LOWEST RESPONSIBLE BIDDER FOR AVAILABILITY. Failure to comply with quoted commitments will be grounds for revocation of bid award and may jeopardize the bidder's position on the University's list of responsible bidders.

9.59 CODES, REGULATIONS AND STANDARDS

A. The installation shall be in compliance with all applicable codes, ordinances and regulations in effect at the time of bid opening including but not limited to the following:

1. Applicable local codes and ordinances
2. IBC (International Building Code) 2009 Edition
3. ANSI A17.1 Safety Code for Elevators and Escalators
4. ICC/ANSI A117.1-2003
5. NEC 2011

6. NFPA101 Life Safety Code, 2012 Edition

7. Agency For Health Care Administration (ACHA) 59-A3, 1992 Edition

8. Governing fire department requirements

9. Utility company requirements

10. State Department of Labor requirements

11. State Department of Health requirements

12. National Fire Protection Association Standards

13. State and Federal Safety and Health Laws

14. NFPA 70 – National Electrical Code, 2008 Edition

15. Americans with Disabilities Act / Accessibility Standards, 2010 Edition

16. Communications Commission

B. If discrepancies occur between Contract Documents, local codes, national codes, utility requirements, etc., most stringent requirements shall apply.

C. All equipment shall be equal to or exceed the minimum requirements of NEMA, IEEE, ASME, ANSI, TIA/EIA and Underwriters' Laboratories.

D. Should any change in plans or specifications be required to comply with governmental regulations, the Contractor shall notify the Owner at the time of submitting the construction schedule.

9.60 REFERENCE STANDARDS

A. References

The following standards and codes contain provisions that, through their reference constitute provisions and requirements of this Section:

1. ANSI/ICEA S-84-608-1988, Filled Telecommunications Cable

2. ANSI/TIA/EIA-568-B.1 (2001) Commercial Building Telecommunications Cabling Standard, Part 1: General Requirements

3. ANSI/TIA/EIA-568-B.2 (2001) Commercial Building Telecommunications Cabling Standard, Part 2: Balanced Twisted-Pair Cabling Components

4. ANSI/TIA/EIA-570-A, Standard, Residential Telecommunication Cabling Standard (proposed revision to 570)

5. ANSI/TIA/EIA-606, Administration Standard for the Telecommunications Infrastructure of Commercial Buildings

6. ANSI/TIA/EIA-607, Commercial Buildings Grounding and Bonding Requirements for Telecommunications.

7. CENELEC EN 50173, Information technology - Generic cabling systems

8. IEC 1000-5-2, Grounding and Bonding

B. Standards

1. Where reference is made to specifications or standards published by various organizations, the Work shall conform to the latest edition of such specifications or standards as amended and revised in effect at the date of Contract, unless a specific date is indicated.

2. Where material is designated for certain applications, material shall conform to standards designated in the applicable building code governing the Work. Similarly, unless otherwise specified, installation methods and standards of workmanship shall also conform to specifications and standards required by such code. Where no particular material is specified for a certain use, Contractor shall select from choice offered in code upon approval by Owner.

3. Where such code, specification or standard does not provide all information necessary for complete installation of an item, comply with manufacturer's instructions for workmanship.

4. Where specific articles, sections, divisions or headings for Reference Standards are not given, such standards shall apply as appropriate. Standards when included herein by abbreviations or otherwise shall form a part of Contract Documents. In the event of conflicts between cited Standards and/or the Contract Documents, the more stringent shall govern.

C. Contractor's Duties and Responsibilities

Responsible when required by Contract Documents or written request from Owner to deliver required proof that materials or workmanship, or both, meet or exceed requirements of Reference Standard.

D. Standard's Abbreviations

Abbreviations used throughout the Contract Documents refer to associations, institutes, societies and other public bodies who publish standards that are readily available to the public. Whenever initials representing such a body are shown, followed by a number or a combination of numerals and letters, reference is to a particular standard to which Contractor shall conform. The number or combination of numerals and letters following abbreviation designates the particular standard to be followed.

9.61 INVITATION FOR BID

2.0 does not apply to this solicitation

3.0 does not apply to this solicitation

10.0 QUOTE SHEET

All items bid must be fully warranted for a minimum period of the specified manufacturer's warranty as listed below. The successful vendor shall guarantee all installation to be free from defects in materials and workmanship for a minimum of one (1) year from final acceptance by the University. Service or replacements of any defective items are to be provided by the successful vendor at no charge to the University during the period of guarantee.

IMPORTANT: The EQUIPMENT COST MUST include the product and the shipping cost. DO NOT LIST SHIPPING COST AS A SEPARATE CHARGE. The INSTALLATION COST must include all equipment, materials, labor, tools, supplies, transportation, and any other expenses necessary to install the equipment as described in these bid specifications.

Please include all package discounts, information, and rebates available including Honors pricing if applicable.

NOTE:

The equipment listed above is provided as a reference for the installation. Verify all quantities and identify any additional items required to provide a complete system. It is the vendor's responsibility to verify the quantities needed and the University will not incur any additional cost for errors made in this verification.

BID BOND: A Cashier's check or bid bond payable to The University of Alabama in an amount not less than five (5) percent of the amount of the bid, but in no event more than $10,000, must accompany the bidder's response. Performance and Payment bonds and evidence of insurance required in the bid documents will also be required prior to the award of a contract.

Quote the cost of providing a performance bond that is equal to 100% of the contract price.

$_____

Quote the cost of providing a payment bond of not less than 50% of the contract price.

$_____

Grand Total for Complete Project including bonds as specified: $_____

Alternate Pricing:

Alternate No. 1: Add 4 ea. 70" Portrait monitors on north wall (Base Bid – No monitors on north wall)

$_____/EA Total $_____

The grand total listed above must include all costs associated to furnish, deliver and install the equipment for this project. The University of Alabama will not incur any costs above the grand total listed above.

SERVICE / MAINTENANCE AGREEMENT:

List below any maintenance agreement your company offers for the equipment included in the RFQ to begin after the expiration of the manufacturer's published warranty and/or installation of products. Extended warranty should include: service visits, labor charges, travel charges, semi-annual preventative maintenance visits, software/firmware upgrades, next business day response, usage record keeping and technical support. State coverage offered. Note any services that are in addition to the list in the previous sentence not included. Note the number of years offered. List each year of agreement and cost for that year. (Include a copy of the service agreement with your bid response).

Does your company provide maintenance or employ a third party for this service? _____ Yes
_____ No

If third party list below:

Specify all terms and conditions of the warranties associated with your installation workmanship and the equipment being provided.

REFERENCES:

References must be included with the bid response. References must include at least three (3) installations other than the University of Alabama for the equipment being bid that has been successfully maintained by the vendor for the past two(2) years, which is similar to equipment to be located at The University of Alabama in terms of manufacturer, size and features.

Company:_____

Address:_____

_____

Contact Name: _____ E-mail : _____

Phone #: _____ Fax #:_____

Company:_____

Address:_____

_____

Contact Name: _____ E-mail : _____

Phone #: _____ Fax #:_____

Company:_____

Address:_____

_____

Contact Name: _____ E-mail : _____

Phone #: _____ Fax #:_____

At the request of the University, the vendor will file additional reliable data and references for investigation. The University may make such investigation as deemed necessary to determine the ability of the vendor to perform the work.

Location of the vendor's nearest service center from the University campus:
_____

City, State _____

Can you meet the forty-eight (48) hour response time to a service/repair call by the University?

_____Yes _____No

CAN YOU MEET THE DELIVERY REQUIREMENT? _____YES _____NO

PRICES EFFECTIVE UNTIL_____
MUST BE A MINIMUM OF SIXTY (60) DAYS

VENDOR CONTACT PERSON EMAIL ADDRESS:_____

VENDOR WEB PAGE ADDRESS: _____

CAMPUS MAP:

A printable campus map and legend is available at www.tour.ua.edu/mapfull.

SECTION 004000 – CERTIFICATES AND FORMS

PART 1 - GENERAL

1.1 REQUIRED ADMINISTRATIVE AND CLOSEOUT DOCUMENTS

A. Provide the following documents as published by the University of Alabama and/or the Alabama Building Commission.
   a. University of Alabama documents and forms are available from the University of Alabama Facilities: www.uafacilities.ua.edu → Construction → External Partner Area.
   b. ABC documents and forms are available on the Alabama Building Commission website at www.bc.state.al.us.

B. Required Documents:
   1. Bid:
      a. Bid Proposal Form, 12/09.
      b. Bid Bond, 07/12.
   2. Construction Bonds:
      a. Bond for Performance of the Work, 11/01/11.
      b. Bond for Payment of Labor, Materials, or Supplies, 7/13/07.
   3. Preconstruction:
      a. Preconstruction Sign-off Sheet Before Excavation, 4/5/10.
      b. Underground Telecommunications Protection Guidelines.
   4. Administrative:
      a. Contractor's Request for Partial Payment, 6/20/12.
      b. Schedule of Values, 7/13/07.
      c. Inventory of Stored Materials, 7/13/07.
      d. Invoice Summary, 7/13/07.
      e. Progress Schedule and Report, ABC Form C-11, 7/13/07.
      f. General Conditions Change Log, Rev. 7/12.
   5. Form of Advertisement for Completion, ABC Form C-14, 6/4/12.
   6. Contractor's Affidavit of Release of Liens, UA Form, 6/4/12.

C. Referenced Documents attached following this Section 004000.

PART 2 - PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION 004000

BID PROPOSAL FORM

THE BOARD OF TRUSTEES OF THE
UNIVERSITY OF ALABAMA
c/o Construction Administration
P.O. Box 870186
1205 14th Street
Tuscaloosa, Alabama 35487-0186

BID PROPOSAL FOR:
Strength & Conditioning Facility -
AV Technology Package
UA Project No. 086-12-102

The Undersigned, as Bidder, hereby declares that the only person or persons interested in the Proposal as Principals is or are as herein named and that no other person than herein named has any interest in this Proposal or in the Contract to be entered into; that this Proposal is made without connection with any other person, company, or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work, and informed himself fully in regard to all conditions pertaining to the place where the work is to be done, and that he has examined the Drawings and Specifications, including Addenda Nos._____ for the work and the other Contract Documents relative thereto, and that he has satisfied himself relative to the work to be performed.

The Bidder certifies by submitting this bid that they are in full compliance with the Code of Alabama, Section 39-3-1 and 39-3-4 and agrees to provide domestic products if the same are available at reasonable and competitive prices. The Bidder further certifies and agrees that if foreign made materials prices have been used as the basis of the bid because domestic products are not available at a reasonable and competitive price, there has been a downward adjustment in contract price equal to any realized savings or benefit to the Bidder and the foreign materials utilized are of an equal or greater quality.

The Bidder certifies by submitting this bid that they are in full compliance with State of Alabama Act No. 2006-557, that they are not barred from bidding or entering into a contract pursuant to Section 41-4-116, Code of Alabama 1975, and that they acknowledge that the Awarding Authority may declare the bid and/or contract void if the certification is false.

The Bidder further declares that he is aware of the tax exempt status of the Owner and that sales/use/severance taxes are **excluded** from the amount of the bid. The Owner may elect to enter into a "Purchasing Agent Agreement" as described in the Contract Documents.

In compliance with your Advertisement for Bids dated _____and subject

to all the conditions thereof, the undersigned _____

Alabama General Contractor's License #_____

Classification _____, A corporation organized and existing under the

Laws of the State of _____.

A Partnership consisting of _____

Or an Individual trading as _____of the City of _____
Hereby proposed to furnish all labor and materials and perform all work required for the construction of _____
in accordance with Drawings and Specifications.

BASE BID: For construction complete as shown and specified, the sum of _____

_____

Dollars ($_____).

ALTERNATES: (see Section 012300 – ALTERNATES for additional information)

Alternate No. 1: Add 4 ea. 70" Portrait monitors on north wall. ADD_____

To be filled out if certified check accompanies bid:

The undersigned further agrees that in case of failure on his part to execute the Contract Agreement and required Contract Bonds within fifteen (15) consecutive calendar days after being given written notice of the Award of the Contract, the check accompanying this Bid and the monies thereon shall be paid into the funds of **THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA, a corporation** as liquidated damages for such failure; otherwise the check accompanying this Proposal shall be returned to the undersigned.

Attached hereto is a certified check on the _____
(Institution Name)
_____

for the sum of _____Dollars

($_____).

To be filled out if bidder's bond accompanies bid:

The undersigned further agrees that in case of failure on his part to execute the Contract and Required Contract Bonds within fifteen (15) consecutive calendar days after being given written Notice of the award of the Contract, the Bidder's Bond accompanying this Bid is callable and the Surety will be called upon the Owner(s) for the liquidation; otherwise said Bidder's Bond shall be returned to the undersigned.

Attached hereto is a bidder's bond of _____
(Bonding Company)

for the sum of _____Dollars

($_____) made payable to **THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA, a corporation.**

The full names and residences of persons and firms submitting the bid as Principles are as follows: (must be signed to be a valid bid proposal)

_____ Date: _____
Signature of Bidder

_____
Title

_____

_____
Business Address

FORM OF BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned,

_____, as Principal; and

Name and Address of Bidder

_____, as Surety,

Name and Principal Place of Business of Surety

are hereby held and firmly bound unto THE BOARD OF TRUSTEES OF THE UNIVERISTY OF ALABAMA hereinafter called the Owner in the sum of 5% of the amount of bid but in no event more than ten thousand Dollars ($_____) for the payment of which sum, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to the Owners a certain Bid, attached hereto and hereby made a part hereof, to enter into a contract in writing, for the,

_____

Project Name and UA Project Number

NOW, THEREFORE,

a. If said Bid shall be rejected, or, in the alternate,
b. If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Agreement attached hereto and shall execute and deliver Performance and Payment Bonds in the Forms attached hereto (all properly completed in accordance with said Bid), and shall in all other respects perform the agreement created by the acceptance of said Bid,

Then, this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all default of the Principal hereinunder shall be the amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of such extension.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument under their several seals this _____ day of _____20____ the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

_____
Principal

_____ By _____
Witness Name and Title (Affix Seal)

_____
Surety

_____ By _____
Witness Name and Title (Affix Seal)

BOND FOR PERFORMANCE OF THE WORK

STATE OF ALABAMA) **CITY OF TUSCALOOSA**
COUNTY OF TUSCALOOSA)

KNOW ALL MEN BY THESE PRESENTS: That we _____

_____, as Principal, and Surety, are held and firmly bound unto **THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA** hereinafter called the Owner, as their interests appear, in the penal sum of _____

Dollars($_____) for the payment of which sum well and truly to be made, we hereby bind ourselves, our heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, we have hereunto set out hands and affixed our seals this

_____ day of _____, 2012.

PROVIDED, HOWEVER, that the condition of this obligation is such that whereas the above bound PRINCIPAL entered into a certain Contract with said THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA for the (construction), (reconstruction) and (improvement) of; a copy of the Contract Agreement therefore is hereto attached.

NOW, THEREFORE, in the event the said PRINCIPAL, as such Contractor, shall faithfully and promptly perform said Contract during the original term of said Contract and any extensions thereof that may be granted by the Owner, and all the conditions and requirements thereof, then this obligation shall be null and void and of no effect; otherwise to remain and be in full force and effect.

PROVIDED, further, that upon the failure of the said PRINCIPAL to promptly and efficiently prosecute said Work, in any respect, in accordance with the Contract Documents, the above bound _____ as Surety, shall take charge of said Work and complete the Contract at his own expense, pursuant to its terms, receiving, however, any balance of the funds in the hands of said THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA, a corporation (The Owner) due under said contract.

In the event said Principal shall fail or delay the prosecution and completion of said work and said Surety shall also fail to act promptly as hereinbefore provided, then the Owner may cause ten (10) days' notice of such failure to be given, either to said Principal or Surety, and at the expiration of said ten (10) days, if said Principal or Surety do not proceed promptly to execute said contract,

THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA
Shall have the authority to cause said Work to be done, and when the same is completed and the cost thereof estimated, the said Principal and Surety shall and hereby agree to pay any excess in the cost of said Wok above the agreed price to be paid under said Contract.

Upon the completion of said Contract pursuant to its terms, if any funds remain due on said Contract, the same shall be paid to said Principal or Surety.

The said Principal and Surety further agree as part of this obligation to pay all such damages of any kind to person or property that may result from a failure in any respect to perform and complete said Contract.

The decision of said Owner, upon any question connected with the execution of said Contract, or any failure or delay in the prosecution of the Work by said Principal or Surety, shall be final and conclusive.

The Advertisement for Bids, Instructions to Bidders, Bid Response, General Conditions of the Contract, Detailed Specification Requirements, Drawings, and the Purchase Order hereinbefore referred to, and the Bond for the Payment of Labor, Materials, or Supplies executed under the provision of Chapter 1, Title 39, Alabama Code of 1975, are made a part of this obligation, and this instrument is to be construed in connection therewith.

IN WITNESS WHEREOF, the above-abounded parties have executed this instrument under their several seals this _____ day of _____, 2012, the name of corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

ATTEST:

_____ _____

Countersigned by Alabama Resident Agent for Surety:

BY:_____
(Title)

SURETY:

_____ _____
(Name)

_____ BY:_____
(Address) (Title)

NOTE: Power of Attorney in connection with the above noted Surety Bond shall be furnished with the original and five copies.

BOND FOR PAYMENT
OF LABOR, MATERIALS, OR SUPPLIES

STATE OF ALABAMA) **CITY OF TUSCALOOSA**
COUNTY OF TUSCALOOSA)

KNOW ALL MEN BY THESE PRESENTS: That we _____

_____, as Principal, and Surety, are held and firmly bound unto **THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA** hereinafter called the Owner, as their interests appear, in the penal sum of

_____ Dollars($_____) for the payment of which sum well and truly to be made, we hereby bind ourselves, our heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF, we have hereunto set out hands and affixed our seals this _____ day of _____, 2012.

PROVIDED, HOWEVER, that the condition of this obligation is such that whereas the above bound PRINCIPAL entered into a certain Contract with said THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ALABAMA for the construction of ; a copy of the Purchase Order therefore is hereto attached.

NOW, THEREFORE, in the event the said PRINCIPAL, as such Contractor, shall make payment to all persons supplying him or them with labor, material, or supplies for or in the prosecution of the Work provided for in said Contract and any and all modifications of said Contract that may hereafter be made, except that no change will be made which increases the total Contract Price more than twenty percent in excess of the original Contract Price without notice to the Surety, then this obligation shall be null and void and of no effect; otherwise to remain and be in full force and effect.

PROVIDED, further in the event that the said PRINCIPAL, as such Contractor, shall fail to make prompt payment to all persons supplying him or them with labor, materials, or supplies for or in the prosecution of the Work provided for in such Contract the above bound _____ as Surety shall be liable for the payment of such labor, materials, or supplies and for the payment of reasonable attorney's fees incurred by successful claimants or plaintiffs in suits on said bond as provided in Chapter 1, Title 39, Alabama Code of 1975.

PROVIDED, further, that said Contractor and Surety hereby agree and bind themselves to the mode of service described in Chapter 1, Title 39, Alabama Code of 1975 and consent that such service shall be the same as personal service on said Contractor or Surety.

Upon the completion of said Contract pursuant to its terms, if any funds remain due on said Contract, the same shall be paid to said Principal or Surety.

The decision of the Owner, upon any question connected with the execution of said Contract, or any failure or delay in the prosecution of the Work by said Principal or Surety, shall be final and conclusive.

The Advertisement for Bids, Instructions to Bidders, Bid Response, General Conditions of the Contract, Detailed Specification Requirements, and Drawings, and Purchase Order hereinbefore referred to, and the Bond for Performance of the Work executed under the provisions of Chapter 1, Title 39, Alabama Code of 1975 are made a part of this obligation and this instrument is to be construed in connection therewith.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals this _____ day of _____, 2012, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

ATTEST: PRINCIPAL:

_____ _____

Countersigned by Alabama Resident Agent for Surety: BY:_____
(Title)

SURETY:

_____ _____
(Name)

_____ BY:_____
(Address) (Title)

NOTE: Power of Attorney in connection with the above noted Surety Bond shall be furnished with the original and five copies.

CONTRACTOR'S REQUEST FOR PARTIAL PAYMENT

Project Name: New Strength & Conditioning Facility - Furniture / Equipment / Technology Pkg
Project No: 085-12-102

Invoice Number: _____
Date: _____

OWNER

The Board of Trustees of the University of Alabama
Construction Administration
Box 870186
Tuscaloosa, AL 35487-0186

CONTRACTOR AND REMITTANCE ADDRESS

Contractor's Name
Address
City, State, Zip

COMPLETE	TOTAL CONTRACT	APPROX. % COMPLETE	AMOUNT COMPLETE
1. TOTAL ORIGINAL CONTRACT	$ -	0.00%	$ -
2. CHANGE ORDER No (s) _____ TOTAL	$ -	0.00%	$ -
3. TOTAL ADJUSTED CONTRACT (Lines 1 + 2) *	$ -	0.00%	$ -
4. STORED MATERIALS - MUST ATTACH INVENTORY OF STORED MATERIALS LIST			$ -
5. TOTAL AMOUNT COMPLETE PLUS STORED MATERIALS (Lines 3 + 4)			$ -
6. LESS RETAINAGE (If Line 3 is 1-49% complete; 5% of amount completed in Line 5) (If Line 3 is 50-100% complete; 2.5% of Total Adjusted Contract *)			$ -
7. SUBTOTAL #1 (Line 5 Minus Line 6)			$ -
8. ONE-HALF CASH DISCOUNTS TAKEN	$ -		
9. SALES AND USE TAX SAVINGS	$ -		
10. NET MAT. INVOICES PAID (___ through ___)	$ -		
10a. TOTAL MATERIALS ON SOV (GCs' SOV)	$ -		
10b. MATERIALS NEEDED TO FINISH (Lines 10a - 10)	$ -		
11. TAX AGREEMENT TOTAL (Lines 8 + 9 + 10 only)			$ -
12. SUBTOTAL #2 (Line 7 Minus Line 11)			$ -
13. LESS TOTAL OF PREVIOUS PARTIAL PAYMENTS			$ -
14. BALANCE DUE CONTRACTOR THIS ESTIMATE (Line 12 Minus Line 13)			$ -

OUTSIDE ARCHITECT APPROVAL (If applicable)

BY: _____ DATE: _____

OWNER APPROVALS

BY _____ DATE: _____

BY _____ DATE: _____

BY _____ DATE: _____

CONTRACTOR CHECKED AND APPROVED

I CERTIFY THAT THE ABOVE ACCOUNT IS CORRECT AND JUST, THAT THERE ARE NO PENDING MATERIAL INVOICES ASSOCIATED WITH THE PERCENTAGES BILLED ON THIS PAY APPLICATION, THAT IT IS REPRESENTATIVE OF THE AMOUNTS PROPERLY SUBMITTED AND BILLED TO ME BY MY SUB-CONTRACTORS, THAT ALL FUNDS DUE TO SUBCONTRACTORS AND OTHERS HAVE BEEN PAID OR WILL BE PROMPTLY PAID, EXCEPT TO THE EXTENT WITHHELD PERSUANT TO A BONA FIDE DISPUTE, AND THAT PAYMENT FOR THIS WORK HAS NOT YET BEEN RECEIVED.

BY _____ DATE: _____

FUND: _____ ACCT CODE: _____ TITLE: _____

SCHEDULE OF VALUES

Project Name: New Strength & Conditioning Facility - Furniture / Equipment / Technology Package **PROJ#:** 085-12-102	**CONTRACTOR:** Contractor's Name		DATE OF REPORT
			PROCEED DATE
	ARCHITECT: Davis Architects, Inc. 120 Twenty Third Street South Birmingham, AL 35233		PROJECTED COMPLETION DATE

A	B	C	D	E	F	G	H	I	J
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS STORED TO DATE	TOTAL COMPLETED AND STORED TO DATE	% (G/C)	BALANCE TO FINISH (C-G)	RETAINAGE
			PREVIOUS APPLICATIONS	THIS PERIOD					
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -
	Subtotal Labor								
	Subtotal Materials								
	TOTALS	$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -

* NOTE: MUST LIST LABOR AND MATERIALS SEPERATELY

INVENTORY OF STORED MATERIALS

Project: New Strength & Conditioning Facility -
Furniture / Equipment / Technology Package

Contractor: Contractor's Name

For Invoice No.: _____

For Period Ending: _____

UA Project No: 085-12-102

CAT	A DESCRIPTION	B MATERIALS STORED LAST PERIOD	C PURCHASED THIS PERIOD	D TOTAL COLUMNS B + C	E MATERIALS USED THIS PERIOD	F MATERIALS PRESENTLY STORED	G ONSITE OR OFFSITE
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
		$ -	$ -	$ -	$ -	$ -	
	TOTALS	$ -	$ -	$ -	$ -	$ -	

This list is to be used as documentation to support value of Stored Materials reported on Contractors Request for Partial Payment.

Contractor's Name
1 of 1

Invoice Summary Submittal

U of A Project Number: LAN-12-034
Project Name: Practice Fields Replacement and Restoration

To: Office of Construction Administration
The University of Alabama
P.O. Box 870186
Tuscaloosa, Alabama 35487-0186

Date: _____

	(1) Contractor	Contractor's Summary No.	(2) Vendor	(3) Gross Amt. w/o Tax	(4) Cash Discount	(5) Invoice Amount	(6) Sales/Use Tax Savings	(7) 1/2 Cash Discounts
1					$ -	$ -		
2					$ -	$ -		
3					$ -	$ -		
4					$ -	$ -		
5					$ -	$ -		
6					$ -	$ -		
7					$ -	$ -		
8					$ -	$ -		
9					$ -	$ -		
10					$ -	$ -		
11					$ -	$ -		
12					$ -	$ -		
13					$ -	$ -		
14					$ -	$ -		
15					$ -	$ -		
16					$ -	$ -		
17					$ -	$ -		
18					$ -	$ -		
19					$ -	$ -		
20					$ -	$ -		
21					$ -	$ -		
			Totals	$ -	$ -	$ -	$ -	$ -
			1/2 Cash Discount		$ -			

By: _____
Authorized Signature

PROGRESS SCHEDULE AND REPORT	CONTRACTOR:	DATE OF REPORT
PROJECT: New Strength & Conditioning Facility - Furniture / Equipment / Technology Package		PROCEED DATE
PROJ#: 085-12-102	ARCHITECT: Davis Architects, Inc. 120 23rd Street South Birmingham, AL 35233	PROJECTED COMPLETION DATE
B.C. No.		

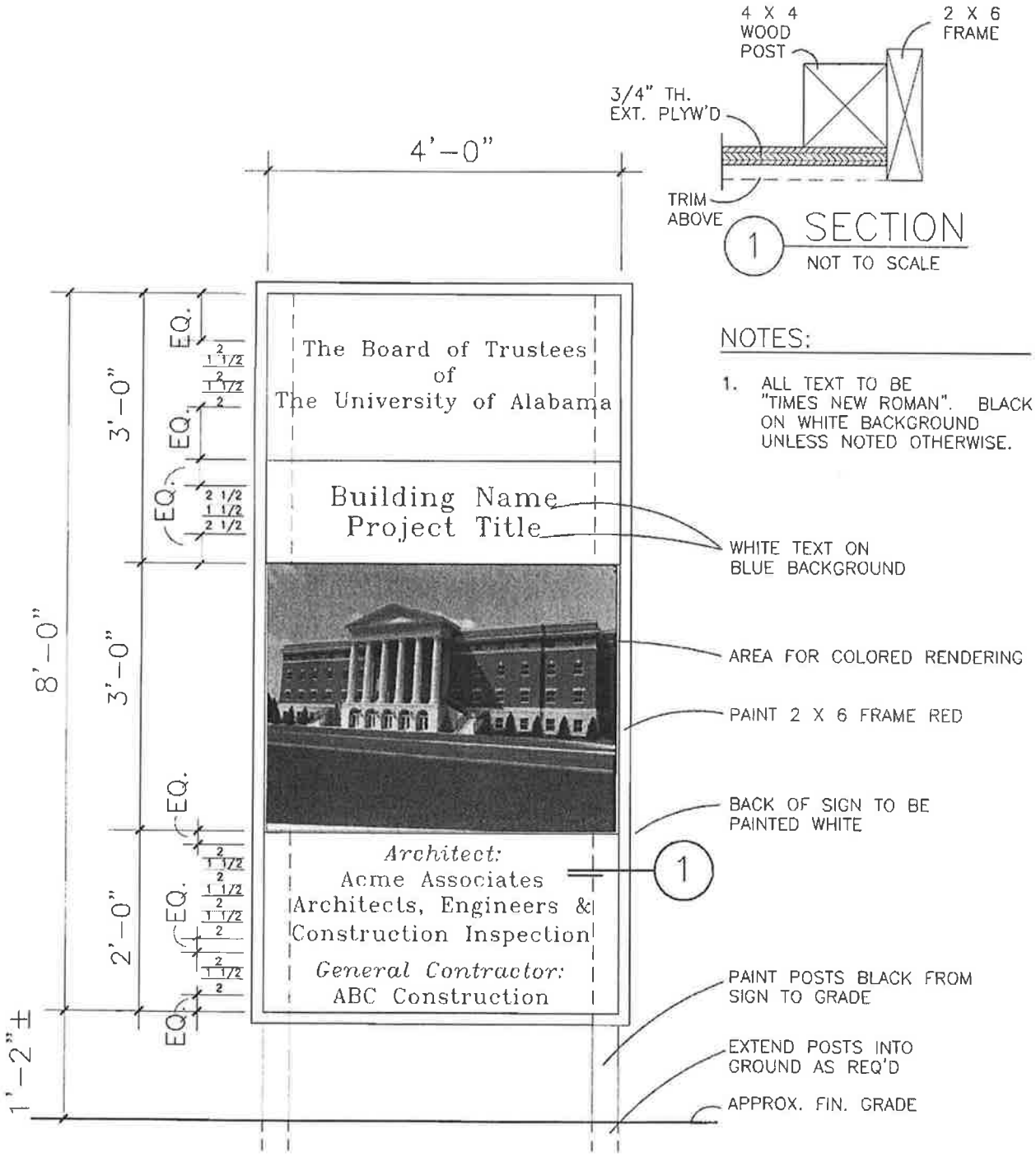
WORK DIVISION	%	AMOUNT
1. GENERAL REQUIREMENTS		$ -
2. SITEWORK		$ -
3. CONCRETE		$ -
4 MASONRY		$ -
5. METALS		$ -
6. WOOD and PLASTIC		$ -
7 THERMAL and MOISTURE PROTECTION		$ -
8. DOORS and WINDOWS		$ -
9. FINISHES		$ -
10. SPECIALTIES		$ -
11. EQUIPMENT		$ -
12. FURNISHINGS		$ -
13. SPECIAL CONSTRUCTION		$ -
14. CONVEYING SYSTEMS		$ -
15. MECHANICAL		$ -
16. ELECTRICAL		$ -
TOTAL ORIGINAL CONTRACT		$ -
ANTICIPATED DRAW IN $1,000		
ACTUAL DRAW IN $1,000		

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%

LEGEND — ANTICIPATED ACTIVITY — ACTUAL ACTIVITY — ANTICIPATED CASH FLOW — ACTUAL CASH FLOW

USE ADDITIONAL SHEETS IF JOB IS SCHEDULED MORE THAN 12 MONTHS

ABC Form C-
11 August
2001

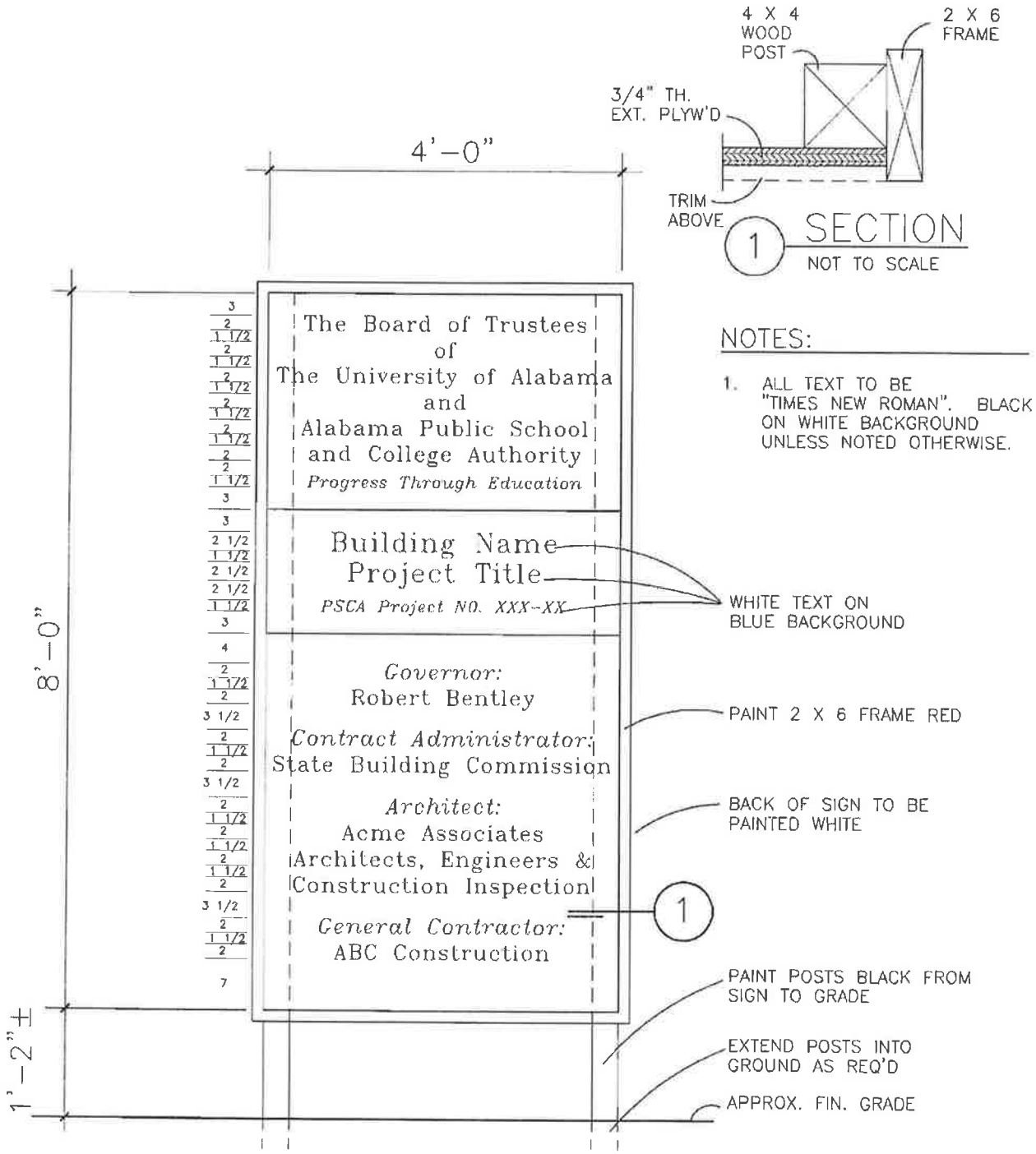


SIGN ELEVATION

NOT TO SCALE

SAMPLE PROJECT SIGN WITH RENDERING

(NON-STATE FUNDED PROJECT)



SIGN ELEVATION

NOT TO SCALE

SAMPLE PROJECT SIGN

(STATE FUNDED PROJECT)

FORM OF ADVERTISEMENT FOR COMPLETION

LEGAL NOTICE

In accordance with Chapter 1, Title 39, Code of Alabama, 1975, notice is hereby given that

_____,
(*Contractor*)
Contractor, has completed the Contract for (Construction) (Renovation) (Alteration) (Equipment) (Improvement) of (*Name of Project*)

at

(*Insert location data in County or City*)
for The Board of Trustees of the University of Alabama, Owner, and have made request for final settlement of said Contract. All persons having any claim for labor, materials, or otherwise in connection with this project should immediately notify

_____(*Architect*)

(Contractor)

(Business Address)

NOTE: This notice must be run once a week for four successive weeks for projects exceeding $50,000.00, for projects of less than $50,000.00, run one time only. Proof of publication is required.

CONTRACTOR'S
AFFIDAVIT OF RELEASE OF LIENS

PROJECT NAME: _____

UA PROJECT NO: _____

OWNER: The Board of Trustees of The University of Alabama

CONTRACTOR: _____

CONTRACT DATE: _____

State of : _____

County of: _____

The undersigned hereby certifies:

That to the best of his knowledge, information and belief, except as listed below, the Releases or Waivers of Lien attached hereto include the Contractor, all Subcontractors, all suppliers of materials and equipment, and all performers of Work, labor or services who have or may have liens against any property of the Owner arising in any manner out of the performance of the Contract referenced above.

EXCEPTIONS: (If none, write "None". If required by the Owner, the Contractor shall furnish bond satisfactory to the Owner for each exception.)

_____

_____

_____

_____

_____

_____

_____

SUPPORTING DOCUMENTS ATTACHED HERETO:

1. Contractor's Release or Waivers of Liens, conditional upon receipt of final payment.
2. Separate Releases or Waiver of Liens from Subcontractors and material and equipment suppliers, to the extent required by the Owner, accompanied by a list thereof.

CONTRACTOR:

Address:

By:

Subscribed and sworn to before me this ___ day of _____, 2 ____.

NotaryPublic: _____

GENERAL CONDITIONS
CHANGE LOG

It is the responsibility of the Bidder to read and familiarize themselves with these General Conditions prior to bidding a job since they will become a part of their contract. Occasionally, the University deems it necessary to make changes in the General Conditions. When we do so we will list those changes on this page along with the date of the change. Once a particular change has been shown on this page for six (6) months we will drop it from this page. This page is being done for the convenience of the Bidder only and in no way shall the University be responsible for any inadvertent change being left off this page. It is the responsibility of the Bidder to read the General Conditions and capture changes. **The Bidder is always responsible for reading and understanding the General Conditions prior to bidding.**

Article changed	Date changed
Article 10	7/3/12
Article 16	7/3/12
Article 18	7/3/12
Article 22	7/3/12
Article 26	7/3/12
Article 39	7/3/12
Article 47	7/3/12

GENERAL CONDITIONS OF THE CONTRACT

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3. Additional Detail Drawings and Instructions
4. Copies Furnished Contractor
5. Shop Drawings & Submittals
6. Project and Record Documents
7. Ownership of Drawings
8. Samples
9. Progress Schedules and Charts
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50. Use of Foreign Materials
51. Equal Opportunity
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55. Construction Debris Reporting
56. Commercial Use of Images of the Work

1. CONTRACT DOCUMENTS:

The contract consists of the following CONTRACT DOCUMENTS, including all additions, deletions and modifications incorporated therein before the execution of the Contract Agreement:

A. STATUTORY AND PROCEDURAL DOCUMENTS:

1. Advertisement for Bids(Invitation for Bids)
2. Instructions to Bidders (Information for Bidders)
3. Bid Proposal (Bid Form)
4. Bid Guaranty (Form UABB as required by Article 6 of Instructions to Bidders)
5. Contract Agreement for Construction Form (UACAC)
6. Contract Bonds (Performance and Material Bond Forms as required by Article 32 of General Conditions of Contract)
7. Evidence of Insurance

B. GENERAL CONDITONS OF THE CONTRACT

C. DETAILED SPECIFICATION REQUIREMENTS

D. DRAWINGS

2. DEFINITONS, INTENT, CORRELATIONS, AND STREAMLINING:

A. DEFINITIONS:

Wherever the following abbreviations and terms, or pronouns in place of them, are used in the Contract Documents, the intent and meaning shall be as interpreted as follows:

1. AWARDING AUTHORITY OR OWNER: The Board of Trustees of The University of Alabama, a corporation, the Party of the First Part to the Contract Agreement, acting through its authorized representatives.

2. BID: The written offer for the Work contemplated, made out and submitted by the Bidder in the required manner, on the prescribed Bid Proposal Form, property signed, and guaranteed.

3. BIDDER: The person or persons, firm, partnership, association, corporation, or combination thereof, submitting a Bid for the Work, or any portion thereof, acting directly or through a duly authorized representative who has met the licensing requirements for general contracting as required by Title 34, chapter 8, Code of Alabama (1975), as amended.

4. COMMISSION: The Alabama Building Commission, or any agency that may be designated by the Legislature as its successor.

5. CONTRACT AGREEMENT: The written Contract Agreement for Construction executed between the Awarding Authority and the successful Bidder, covering the performance of the Work, by which the Contractor is bound to perform the Work and to furnish the labor, materials, and equipment under the terms of the Contract Documents, and by which the

Awarding Authority is obligated to compensate the Contractor therefore at the mutually established and accepted rate or price, or as hereinafter provided.

6. CONTRACT BONDS: The approved bonds, required by Chapter 1, Title 39, Code of Alabama (1975), as amended, and furnished by the Contractor and its Surety to guarantee both completion of the Contract in accordance with the Contract Documents and prompt payment to all persons supplying labor, materials, supplies, etc.

7. CONTRACTOR: The person or person, company, firm, partnership, association, corporation, limited liability company, cooperative or combination thereof, the Party of the Second Part to the Contract Agreement, acting directly or through its agents or employees.

8. DESIGNER: The professional person, firm, association, or corporation who, having met requirements of Title 34, Code of Alabama (1975), as amended, has indicated by seal or signature and license number that full responsibility has been accepted for the design, and who has been employed by the Awarding Authority, or in case of the termination of his employment, his successor designated by the Awarding Authority, to furnish the drawings and specifications in the Contract Documents.

9. DIRECTOR: The Director, Technical Staff, or the State Building Commission, acting either upon his own initiative or through the Project Manager or other duly authorized Supervisors and Inspectors, acting severally within the scope of the particular duties entrusted to them or the authority given them.

10. MODIFICATIONS OF THE GENERAL CONDITIONS: Changes or modifications of the parts of these General Conditions.

11. NOTICE TO PROCEED: A proceed order issued by the Awarding Authority, within fifteen (15) days after final execution of the Contract Agreement, unless both parties agree in writing to a stipulated extension in time for the issuance of a proceed order, fixing the time within which the Contractor shall begin the prosecution of the Work.

12. SPECIAL CONDITIONS: Additional special or general requirements that are necessary and peculiar to the particular project and which are not included in the parts of these General Conditions.

13. SPECIFICATIONS: The general term comprising the Statutory and Procedural Documents, General Conditions of the Contract, the detailed Specification requirements, together with all modifications thereof and all Addenda thereto.

14. SUBCONTRACTOR: Any properly qualified individual, firm, association, or corporation undertaking the performance of any part of the Work under the terms of the Contract Documents by virtue of any agreement between the Subcontractor and the Contractor with the prior written approval of the Awarding Authority.

15. SURETY: The corporate body, licensed under the laws of Alabama, bound with and for the Contractor for the full and complete performance of the Contract and also for the payment of all claims recoverable under the Contract Bonds.

16. THE PROJECT: The total work described in the Contract Documents.

17. THE WORK: The work shall mean whatever is done or required of the Contractor to perform and complete its duties under the Contract Documents including, without limitation, the following: construction of the whole or designated part of the Project; furnishing of any required surety bonds and insurance; and the provision or furnishing of all labor, supervision, services, materials, supplies, equipment, fixtures, appliances, facilities, tools, transportation, storage, power, permits and licenses required of the Contractor, fuel, heat light cooling and all other utilities as required by the Contract Documents.

B. INTENT:

The intent of the Contract Documents is to include all labor, supplies, materials, water, fuel, tools, equipment, plants, utility and transportation services, and all other incidental services and expenses necessary or required for the complete, correct, proper and timely execution of the Work.

C. CORRELATION:

1. ORDER OF PRECEDENCE: Should any discrepancy arise between the various elements of the Contract Documents, precedence shall be given the same in the following order:

   (a) The Contract Agreement
   (b) The detailed Specifications requirements
   (c) Details appearing on the Drawings
   (d) The Working Drawings

2. WORDS AND TERMS: Words used in the documents will be given their usual and common meaning unless, from the entire Contract, it is clear that some other meaning was intended. Words describing material and work which have a well known technical meaning or trade meaning, unless specifically defined in the Contract Documents will be construed in accordance with such well known meaning recognized by architects, engineers, and the trade. Technical terms will be construed in a technical sense, and a specifically widely adopted trade meaning afforded certain terminology will be taken into account in any interpretation containing such terminology.

3. GENERAL AND SPECIAL CONDITIONS: Where both General and Special Conditions relate to the same thing, the Special Conditions will prevail; that is, the specific language will take precedence over the more general wording; however where both the General and Special Conditions may be given reasonable effect, both are to be retained.

4. PRINTING, TYPING, AND WRITING: When a printed portion of the Contract Documents cannot be reconciled with a typewritten portion, the latter will prevail. Various types of duplicating processes will be considered typewriting instead of printing. Also, if one is typewritten and the other written in longhand, the one written in longhand will govern. Likewise, written numbers will govern.

   Written specifications will take precedence over drawings. If a correction is made in specifications or on a drawing and the original conflicting statement is not crossed out, then the revision, written in or drawn in, will be considered what was meant.

Obvious clerical or drafting errors or omissions revealed by perusal of the Contract Documents as a whole will be discounted in determining the intent of the parties, insofar as this may be accomplished without contravention or legal principles or public policy.

5. DRAWINGS AND SPECIFICATIONS: The intent of the Specifications is to outline or indicate in items of work that cannot readily be shown of the Drawings and, further, to indicate types and qualities of materials and workmanship. Drawings and Specifications will be considered complementary, and items of work mentioned or indicated on one and not on the other shall be included as if mentioned in both, except items definitely noted "Not in Contract" or marked "N.I.C."

6. CONTRACTOR'S CHECK: Prior to the execution of the Work, the Contractor shall carefully read, examine, and study the Drawings and Specifications and shall immediately report all ambiguities, inconsistencies, conflict, errors, discrepancies, deviations from industry standards or from manufacturer's recommendations, and/or omissions discovered therein by letter to the Awarding Authority. All such ambiguities, inconsistencies, conflicts, errors, discrepancies, deviations from industry standards or from manufacturer's recommendations, and/or omissions will be adjusted by the Awarding Authority who will notify the Contractor. Any adjustments made by the Contractor without prior approval will be at Contractor's own risk, and the settlement of any complications arising from such adjustment will be at Contractor's own expense.

7. EXPLANATIONS: Any doubt as to the meaning of the Drawings or Specifications, or any obscurity as to the wording of them, will be explained by the Awarding Authority and all directions and explanations requisite or necessary to complete, explain or make definite any of the provisions of the Specifications and Drawings and give them due effect, will be given by the Awarding Authority in writing.

D. STREAMLINING:

1. OMISSION OF WORDS AND PHRASES: The detailed Specification requirements are of abbreviated or "Streamlined" type and include incomplete sentences in order to avoid cumbersome and confusing repetition of expression. Omissions of words or phrases such as "the Contractor shall," "in conformity therewith," "as noted," "as indicated on the Drawings," or "according to the Drawings," are intentional. Omitted words or phrases will be supplied by inference. Wherever in the Specifications or upon the Drawings, APPROVED, AUTHORIZED, CONTEMPLATED, CONSIDERED NECESSARY, DEEMED NECESSARY, DESIGNATED, DIRECTED, GIVEN, ORDERED, PERMITTED, PRESCRIBED, REQUIRED, or words of like import are used, they shall be construed to mean and intended "by the Awarding Authority," and similarly, the words ACCEPTABLE, SATISFACTORY, or words of the like import shall be construed to mean acceptable to or satisfactory "to the Awarding Authority", unless otherwise expressly stated or the Contract clearly indicates another meaning.

Words "furnish," "install," "perform," "provide," and "work" shall mean that the Contractor shall furnish, install, perform, provide, and connect up complete in operative condition and use all materials, equipment, apparatus, and required appurtenances of the particular item to which it has reference.

2. APPLICABLE PUBLICATIONS: References to standard specifications, associations, bureaus, organizations, or industries, and the like, shall mean the latest edition of such references adopted and published at date of the Advertisement for Bids.

3. ADDITONAL DETAIL DRAWINGS AND INSTRUCTIONS:

Further information and instructions may be issued and transmitted to the Contractor by the Awarding Authority during the progress of the Work by means of additional detail drawings, or otherwise as deemed necessary to make more clear or specific the Drawings and Specifications in the Contract Documents, when and as required by the Work. All such drawings and instructions shall be consistent with the Contract Documents, true developments thereof, and reasonably inferable therefrom.

Any ambiguities, inconsistencies, conflicts, errors, omissions, deviations from industry standards or from manufacturer's recommendations, and/or discrepancies found between the Drawings and Specifications and site conditions shall be immediately reported in writing to the Awarding Authority who will promptly correct the same in writing. Any work done by the Contractor after its discovery of such ambiguities, inconsistencies, conflicts, discrepancies, errors, or omissions, and prior to receipt of written clarification or correction, shall be done at Contractor's own risk.

In case of a difference between small and large scale drawings, the large scale drawings shall govern.

Where, on any of the drawings, a portion of the Work is drawn out and the remainder is indicated in outline, the parts drawn out shall apply also to all other portions of the Work.

Where the word "similar" occurs on the Drawings, it shall be interpreted in its general sense and not as meaning identical, and all details shall be worked out in relation to their location and their connection with other parts of the Work.

If the Contractor considers that any work is required in a manner to make it impossible to produce first-class work, or should ambiguities, inconsistencies, conflicts, errors, omissions, deviations from industry standards or from manufacturer's recommendations and/or discrepancies appear in or between any of the Contract Documents; the Contractor shall request interpretation, clarification, or correction before proceeding with such work. If Contractor fails to make such a request, no excuse will thereafter be entertained by the Awarding Authority for Contractor's failure to execute and complete the work in a correct and satisfactory manner.

Contractor shall have a continuing duty to read, carefully study, and compare each of the Contract Documents, the Shop Drawings, and Samples and product data and shall give written notice to the Awarding Authority of any inconsistency, ambiguity, conflict, discrepancy, error or omission, deviations from industry standards or from manufacturer's recommendations, which Contractor may discover with respect these documents before proceeding with the affected Work. The issuance or the express or implied approval by the Awarding Authority or Designer of the Contract Documents, Shop Drawings, or Samples and product data shall not relieve Contractor of the continuing duties imposed hereby, nor shall any such approval be evidence of Contractor's compliance with this Contract. The Awarding Authority has requested that Designer to only prepare documents for the Project, including Drawings and Specifications for the Project, which are accurate, adequate, consistent, coordinated and sufficient for construction. HOWEVER, AWARDING AUTHROITY MAKES NO REPRESENTATION OR WARRANTY OF ANY NATURE WHATSOEVER TO CONTRACTOR CONCERNING SUCH DOCUMENTS. By execution of the Contract Agreement, Contractor acknowledges and represents that it has received, reviewed and carefully examined such documents, has found them to be complete, accurate, adequate, consistent, coordinated, and sufficient for construction, and that Contractor has not, does not, and

will not rely upon any representation or warranties by the Awarding Authority concerning such documents as no such representation or warranties have been or are hereby made.

4. COPIES FURNISHED CONTRACTOR:

Except as otherwise provided, all required copies of Drawings and Specifications for the execution of the Work will be furnished to the Contractor by the Awarding Authority without charge. Other copies requested will be furnished at reproduction cost. "Maximum 20 sets".

5. SHOP DRAWINGS:

The Contractor shall check the Contract Drawings for accuracy and verify with field measurements as necessary. Contractor shall submit to the Awarding Authority with its criticism and/or approval, all layouts, detail schedules, shop drawings, and setting or erection drawings as required by the Specifications or requested by the Awarding Authority for proper installation of materials, without causing delay in the Work. The Contractor shall read, carefully study, and check Subcontractors' shop drawings for accuracy and see that work contiguous with and having bearing on work indicated on shop drawings shall be dated, numbered consecutively, show working and erection dimensions and necessary details, and include complete information for connecting to other work. Any work required by shop drawings that is fabricated by the Contractor prior to approval shall be at its own risk.

All shop drawings and schedules, accompanied by a letter of transmittal containing project number, number of drawings, titles, or other pertinent data, shall be submitted to the Awarding Authority in quintuplicate by the Contractor (with his stamp of approval thereon) sufficiently in advance of construction requirements to allow checking, correcting, re-submitting, and rechecking. Whenever necessary, due to receipt of a high volume of simultaneous submittals, the Designer shall notify the Contractor that submittal review must be prioritized and request the Contractor to provide said prioritization, in writing, of those simultaneous submittals based on the contractor's approved project schedule. This shall have the effect of staying the twenty-one day review requirement for the lower priority submittals. If shop drawings show variations from the requirements of the Contract Documents because of standard shop practice or other reasons, specific mention of such variations shall be made in the letter of submittal.

Satisfactory drawings will be so identified, dated, approved, and three copies of sets returned to the Contractor by the Awarding Authority. Should shop drawings be disapproved, three sets will be returned to the Contractor by the Awarding Authority indicating corrections and changes to be made. Such corrections, changes, including design and artistic effect, shall be submitted in quintuplicate to the Awarding Authority until final approval is obtained. No corrections or changes indicated on shop drawings will be considered as Extra Work. Contractor shall not perform any portion of the Work requiring submittal and review of shop drawings, product data or samples unless and until such submittal shall have been approved by the Designer.

The approval of shop drawings, schedules, and setting or erection drawings will be general and shall <u>not</u> be construed

A. as permitting any departure from contract requirements,

B. as relieving the Contractor of the responsibility for any error in details, dimensions, coordination with other work, or otherwise that may exist in shop drawings and schedules, or

C. as approving departures from drawings and specifications or from additional details or instructions previously furnished by the Awarding Authority unless Contractor has in

writing called attention to such deviations at the time of submission, and secured written approval.

Shop drawings, product data and samples and other submittals from the Contractor do not constitute Contract Documents. Their purpose is merely to demonstrate the manner in which the Contractor intends to implement the Work in conformance with the information received from the Contract Documents.

6. PROJECT AND RECORD DOCUMENTS:

The Contractor shall keep on the site of the Work, and in good order, at least one set of its Contract Drawings including shop drawings, specifications, and all authorized change orders, and shall at all times give the Awarding Authority, and their representatives access thereto.

The Contractor shall also keep in his office on site of the Work one set of Contract Drawings and Specifications furnished by the Awarding Authority, herein referred to as RECORD DRAWINGS, on which shall be recorded all work as built or installed, and such other information as is specified or required. Contractor shall carefully draw and letter notes of explanation, in ink, on the Record Drawings, as a fully dimensioned record of all work. The Record Drawings, supplemented by any detailed sketches deemed necessary, shall indicate the work "AS BUILT" and shall clearly designate all notations by "clouding" around the notation. The Contractor will be requires to prepare new drawings if the indications on the Record Drawings or the detailed sketches are illegible or otherwise unsatisfactory for future reference. Each record or correction made on such drawings will be initialed and dated by the Contractor's Supervisor or Awarding Authority's Inspector. At the conclusion of the project and prior to final inspection and as a condition of final payment, the Contractor shall obtain and pay for one set of reproducible mylars from the Awarding Authority and transfer all "As Built" information from the Record Drawings to the mylar reproducible in a clear, legible, and reproducible manner and then deliver them to the Awarding Authority. These mylars need to be signed by General Contractor, dated and marked "As-Builts." The Contractors shall also furnish "As-Builts" on CD in the most current version of Autocad. (See Article 01700)

7. AWARDING AUTHORITYSHIP OF DRAWINGS:

All originals or duplicated Contract Documents, including the Drawings and Specifications, and other data prepared by the Awarding Authority or Designer, and copies thereof prepared and furnished to the Contractor are the property of the Awarding Authority or Designer.

Upon completion of the Work, all copies of the Drawings and Specifications, with the exception of two sets retained by the Contractor, shall be returned by the Contractor to the Awarding Authority.

8. SAMPLES:

The Contractor shall, without undue delay, furnish and submit to the Awarding Authority any samples which require the Awarding Authority's or Designer's approval, and also any samples which may be requested by the Awarding Authority, of any and all materials or equipment Contractor proposes to use. All shipping charges on the samples shall be prepaid. Samples shall be furnished sufficiently in advance to allow the Awarding Authority reasonable time for examination, investigation, or consideration without delay to the Work.

The Contractor shall provide Subcontractors and prospective manufacturers, material dealers or suppliers with complete information of pertinent contract requirements and all transactions therewith shall be through the Contractor.

Contractor's use of materials or equipment in the Work prior to receiving any required sample approval of such materials or equipment shall be solely at the Contractor's risk and expense.

Each sample shall have a label indicating the material represented, its place of origin and the name of the producers, the Contractor, and the building or Work for which the material is intended. Where manufacturer's printed instructions for installation are required, duplicate copies of such directions shall be submitted with samples. Contractor's attention is directed to General conditions Article 50, USE OF FOREIGN MATERIALS.

A list of the samples, the name of the building or Work for which the materials are intended, and the brands of materials and names of the manufacturers shall accompany each sample transmission by the Contractor.

After a material has been approved by the Awarding Authority no additional samples of that material will be considered and no change in brand or make will be permitted.

Failure of any materials to pass required tests will be sufficient cause for refusal to consider any further samples of the same brand of make of that material for use in the Work.

Test samples, as the Awarding Authority may deem necessary, will be produced from the various materials delivered for use in the Work. If any of these test samples fail to meet the contract requirements, any previous approvals will be withdrawn and such materials shall be subject to removal and replacement by the Contractor with materials or equipment meeting the contract requirements. The Awarding Authority has the option to allow the defective materials to remain in place subject to proper credit or adjustment of the Contract Price as hereinafter set forth under General Conditions Article 21, DEDUCTIONS FOR UNCORRECTED WORK.

The costs of tests will be borne as specified in the Contract Documents.

9. PROGRESS SCHEDULE AND CHARTS:

The Contractor shall, within ten days after date of commencement and as directed in the earlier of either the Notice to Proceed, Letter of Intent, or other instrument, prepare and submit for the Designer and Awarding Authority's review and approval a Critical Path Method (CPM) type of schedule (in both electronic (not PDF) and hard format) showing the order in which the Contractor proposes to carry out the Work within the contract time. The CPM schedule shall include, among other detail, the date Contractor will start the salient features of the Work, including, but not limited to, procurement of material, plant and equipment, startup, testing and acceptance, critical milestones, activity relationships and constraints, float, and the contemplated date of completion for the Work and each activity there under. The schedule shall be of sufficient detail to reflect all major aspects and constraints of the Work including, but not limited to, coordination with other trade packages and any information or action required by Designer and/or the Awarding Authority. The Designer and Awarding Authority's review and approval of the Contractor's construction schedule shall be only for compliance with the specified format, Contract Time, and suitability for monitoring progress of the Work and shall not be construed as a representation that the Designer or Awarding Authority has analyzed the schedule to form opinions of sequences or durations of time represented in the schedule.

The CPM schedule shall be in the form of a computerized flow chart using "Suretrak," or other software and be of suitable scale to indicate the percentage of the various classifications or work

scheduled for completion at any time. If "Suretrak" is not used, Contractor shall provide licensed copies of other software used to develop the schedule at no additional cost to the Awarding Authority. The Contractor shall regularly update the CPM schedule. At the end of each month contractor shall enter the actual percentage of completion and the actual start and finish dates on the construction schedule and deliver to the Awarding Authority two current copies showing planned and actual progress of the Work with each Application for Partial Payment. The construction schedule shall be revised to reflect any agreed extensions of the Contract Time or as required by conditions of the Work.

The Contractor's construction schedule shall be used by the Contractor, Designer, and Awarding Authority to determine the adequacy of the Contractor's progress. The Contractor shall be responsible for maintaining progress in accordance with the currently approved construction schedule and shall increase the number of shifts, and/or overtime operations, days of work, and/or amount of construction plant as may be necessary to do so. If the Contractor's progress falls materially behind the currently approved construction schedule and, in the opinion of the Designer or Awarding Authority, the Contractor is not taking sufficient steps to regain schedule, upon written request Contractor shall submit for review by Designer and Awarding Authority such supplementary or revised construction schedules as necessary to demonstrate the manner in which the original rate of progress will be regained, all without additional cost to the Awarding Authority.

Failure by the Contractor to comply with these progress requirements in order to ensure completion within the Contract Time will be sufficient reason for the Awarding Authority to terminate the Contract or supplement the Contractor as provided elsewhere in the contract.
The Contractor's construction schedule shall begin with the date of commencement stated in the Notice to Proceed or Letter of Intent and conclude with the date of Substantial completion of the Work. Float or slack time within the construction schedule is **not** for the exclusive use or benefit of the Awarding Authority or of the Contractor, but is a resource available to both parties as needed to meet contract milestones and the contract completion date.

Pursuant to these float sharing requirements, no time extensions will be granted until a delay occurs which will impact the Work's critical path, consumes all float or contingency time available, and extends the Work beyond the contract completion date.

Whenever necessary, due to receipt of a high volume of simultaneous submittals, the Designer shall notify the Contractor that submittal review must be prioritized and request the Contractor to provide said prioritization, in writing, of those simultaneous submittals based on the contractor's approved project schedule. This shall have the effect of staying the twenty-one day review requirement for the lower priority submittals.

No extension of contract time will be granted for Owner delays concurrent with delays by the Contractor.

The Awarding Authority reserves the right to reduce the Contract Time to the time of completion shown on the Contractor's early completion schedule at no additional cost to the Awarding Authority.

10. MATERIALS, EQUIPMENT, AND EMPLOYEES:

Unless otherwise stipulated, the Contractor shall furnish all material, equipment, tools, labor, water, light, power, transportation, other services or facilities, and incidentals for the proper execution and completion of the Work. Unless otherwise stipulated, Contractor warrants that all materials, products, systems and equipment, including those purchased under the Purchasing Agent Agreement, incorporated in the Work shall be new and without apparent damage, be of quality equal to or higher than that required by the Contract Documents, be merchantable, and free of defects.

Contractor warrants all labor and services shall be performed in the best and most workmanlike manner by persons skilled in their respective assignments or trades, shall comply with the Contract Documents, and shall be free of defects. Workmen whose work is unsatisfactory, or who are considered unfit or unskilled, or otherwise objectionable, shall be removed from the Work.

11. EQUIPMENT AND MATERIAL DEVIATIONS:

Whenever any material or piece of equipment is identified on the plans or in the Specifications by reference to a single manufacturer's name, model numbers, etc., without the phrase "or approved equal," this material or equipment shall be supplied as specified without consideration to any other manufacturer. Any deviation from this requirement must be approved in writing by the Designer prior to the receipt of bids.
When the Specifications and/or Drawings indicate two or more manufacturer's names or brands for materials or equipment to be used it shall be assumed that the phrase "or approved equal" is inserted following the naming of manufacturers, whether such phrase occurs in the Specifications or not. However, if the Contractor desires to use a substitute it must secure written approval by the Designer. If a request to substitute an "approved equal" is made by the Contractor, and not approved by the Designer, then it will be expressly understood that all such material and equipment so named or described by any one of the manufacturers listed in the Specifications and/or Drawings will be furnished in full accordance with the Contract Documents.

12. ROYALTIES; PATENTS; AND COPYRIGHTS:

The Contractor shall pay all royalties and license fees. The Contactor shall defend all suits or claims for infringement of any copyright or patent right and shall hold and save harmless the Awarding Authority and its agents and employees from any liability or loss of any nature or kind, including cost and expenses, for or on account of any copyright or any patented or unpatented invention, process, article, or appliance manufactured or used in the performance of the Contract, including its use by the Awarding Authority.

If the Contractor has information that any process, article or item specified or delineated by the Contract Documents is an infringement of a patent or copyright, it shall promptly give such information to the Awarding Authority.

13. SURVEYS, PERMITS, LAWS AND REGULATIONS:

The Contractor shall provide competent professional services to execute the Work in accordance with contract requirements. Contractor shall verify the figures given for the contours, approaches and locations shown on the Drawings before undertaking any construction work and be responsible for the accuracy of the finished work. Without extra cost to Awarding Authority, Contractor shall engage a licensed surveyor if necessary to verify boundary lines, keep within property lines, and shall be responsible for encroachments outside the project site.

The Contractor shall establish all base lines for the location of the principal components of the Work and make all detail surveys necessary for construction, including slope stakes, batter boards and other working points, lines and elevations.

If the Contractor finds any errors or discrepancies, or that any previously established references have been destroyed or misplaced, Contractor shall promptly notify the Awarding Authority.

The Contractor shall obtain and pay for all licenses and permits and shall pay all fees charges for connection to outside service and the use of property, other than the site of the Work, required for the execution and completion of the Work.

The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations, and building code requirements applicable to or bearing on the conduct of the Work unless in conflict with contract requirements. If the Contractor ascertains at any time that any requirement of the Contract Agreement is at variance with applicable laws, ordinances, regulations, or building code requirements, Contractor shall promptly notify the Awarding Authority and any necessary adjustments of the Contract Agreement will be made as hereinafter specified under General Conditions, Article 19, CHANGES IN THE WORK.

The Contractor shall have included in its bid price all Federal, State, and local taxes except taxes and assessments on the real property of the site of the Work and other taxes to be excluded under the terms of the bid documents. Wherever the law of the place of building requires a special tax not excluded by the terms of the bid documents, the Contractor shall have included in its bid price such taxes. (Refer to “Special Conditions” which may contain additional tax information).

14. PROTECTION OF WORK AND PROPERTY:

The Contractor shall at all times adequately maintain, guard and protect its own work from damage, and safely guard and protect the Awarding Authority’s property from injury or loss arising in connection with the Project. All damaged property of Awarding Authority shall be repaired or replaced with new similar property at Contractor’s expense, including installation costs, at replacement value without deduction or reduction for depreciation. All repairs and replacements shall be done only upon approval of Awarding Authority whose decision shall be final.

Contractor shall adequately protect adjacent property as provided by law and Contract Documents.
Any damage to existing structures or the interruption of utility services shall be repaired or restored promptly at the expense of the Contractor.

The Contractor shall protect all existing vegetation such as trees, shrubs, and grass on or adjacent to the site which are not required to be removed or do not unreasonably interfere with construction, and shall be responsible for all unauthorized cutting or damage of trees and shrubs, including damage of grass areas, due to careless operation of equipment or stockpiling of materials.

Care shall be taken by the Contractor in felling trees that are to be removed to avoid any unnecessary damage to vegetation or other trees that are to remain in place. Any limbs or branches unavoidably broken during such operations shall be trimmed with a clean cut and painted with an approved tree pruning compound. The Contractor may be required to replace or restore at its own expense all vegetation not protected and preserved, as above required, that may be destroyed or damaged.

The Contractor shall provide and maintain all passageways, guard fences, lights, and other facilities required for protection by state or municipal laws and regulations or local conditions.

The Contractor shall take all necessary precautions for the safety of public and employees on the Work and shall comply with all applicable provisions of federal, state, and municipal safety laws and building codes to prevent accidents or injury to persons on or about or adjacent to the premises where the work is being performed.

In order to protect underground telecommunication and all utilities during excavation the University and Contractors shall adhere to these guidelines:

1. The CONTRACTOR shall contact the University Project Manager to obtain the "Pre-Construction Sign-Off Sheet before Excavation" and to notify the Project Manager that they are calling to obtain all markings needed.

2. The CONTRACTOR shall have this Pre-Construction Sign-Off Sheet before excavation completed with an excavation confirmation number provided. A two (2) day notice is required for marking.

3. The CONTRACTOR shall submit the completed sign-off sheet to the Owner through the UA Project Manager or project Architect a minimum of forty-eight (48) hours prior to beginning any work.

4. The CONTRACTOR shall, as a minimum, have the sign-off sheet updated a minimum of every two (2) weeks, and shall submit such updated sign-off sheets(s) to the university Project Manager or project Architect.

5. The general contractor shall be responsible for maintaining the utility markings as needed for the project.

6. It shall be the general contractor's sole responsibility to ensure each trade specific subcontractor has completed a 'Pre-Construction Sign-Off Sheet before Excavation' as required to perform their work.

7. In the event timely notice of such excavation of digging is not given as provided above or if such notice is given but a telephone cable or network fiber is cut or damaged due to the negligence of the general contractor or subcontractor, the University will charge the general contractor the following amounts and may withhold from any accrued payments the amounts due.

   For Telecommunication Lines:

   Fiber:
   $ 5000 Service Interruption Fee
   $100 per fiber splice (i.e. the fiber is 30 pair, then 60 splices will be required)
   Plus cost of Material

   Copper:
   $5000 Service Interruption Fee
   Time – Rate is $35.00/manhour and $50.00/Overtime manhour
   Plus Cost of Material

   For All Other Utilities:

   Time and Material for cost of the repair

15. CLIMATE CONDITONS:

The Contractor shall suspend any work that may be subject to damage by climatic conditions outside of the material manufacturer's specifications and/or industry standards.

16. BUILDING ENVIRONMENTAL CONTROL:

The Contractor shall provide, at its expense, all necessary equipment, utilities, fuel, safeguards and other requirements to maintain temperature and humidity control within the specifications and material manufacturer's stated tolerances as necessary to protect all work and materials against damage and installation failures until final acceptance of all Work in the Contract, unless the building or buildings are fully occupied by the Awarding Authority prior to such acceptance, in which case the Awarding Authority will assume all expense of maintaining building environmental control from the date of occupancy. The Contractor shall provide building environmental control including, but not limited to, the following:

A. at all times during the placing, setting, and curing period of concrete, sufficient temperature control to ensure the heating of spaces to not less than 50 F and not to exceed 90 F,

B. for the placing of interior wood finish work and throughout the placing of wood finish and other interior finishing, varnishing, painting, etc., appropriate building environmental control shall be in place for a period of ten days previous and until final acceptance of the Work,

C. provide temporary closures for windows, doors, and all temporary openings and take every reasonable precaution to prevent the escape of warm air from or entrance of cold air into the building in order to maintain appropriate building environmental control for the work taking place and commensurate with the final operating conditions,

D. provides such other protection as required under the specific material specifications in Divisions 2-16 of the Specifications or the manufacturer's recommendations.

17. INSPECTION OF THE WORK:

The Awarding Authority or any agency having jurisdiction, and their representatives shall, for inspection purposes, have access at all times to the Work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for such access and inspection.

All materials, workmanship, processes of manufacture, and methods of construction, if not otherwise stipulated, shall be subject to inspection, examination, and test by the Awarding Authority (or its duly authorized representatives) at any and all places where such manufacture and/or construction are being performed. The Awarding Authority shall have the right to reject defective material and workmanship or require its correction. Rejected workmanship shall be satisfactorily corrected, and rejected material shall be satisfactorily replaced with proper material, without charge therefor, and the Contractor shall promptly segregate and remove the rejected material from the premises.

The Awarding Authority may appoint or assign Inspectors, with designated duties and restricted authority, to inspect the work, or to make special inspections requested in advance by the Contractor, and to report the progress of the Work, and manner or procedure, quality of the

material and workmanship, and compliance with the Contract Documents. Authorized inspectors shall have the authority to reject materials, workmanship, or equipment clearly defective or otherwise not in the accordance with the Drawings and Specifications, but neither the presence nor absence of such inspectors shall relieve the Contractor from fully complying with all of the contract requirements.

No inspector has authority to revoke, alter, relax, or waive any requirements of the Contract Documents; to finally approve or accept any portion of the Work or to issue instructions contrary to the Drawings and Specifications, nor shall any inspector supervise and direct work for the Contractor, nor unreasonably interfere with the Contractor's operations beyond the extent necessary to make certain that the Work is being carried out according to the contract requirements.

Any advice which an inspector may give to the Contractor shall not be, nor construed to be, as binding on the Awarding Authority in anyway, nor release the Contractor from its duty to comply with all of the contract requirements.

The Contractor shall furnish promptly, without extra compensation, all reasonable facilities, labor, services, equipment, and material necessary for safe and convenient access, inspection, and tests that may be required. All inspections and tests will be performed in such a manner as not to cause unnecessary delay of the Work. Special, full size and performance tests shall be as described in Sections of the Specifications. The Contractor may be charged any extra cost of inspection incurred by the Awarding Authority on account of material and workmanship not being ready at the time set by the Contractor for an inspection or test.

Should the Awarding Authority consider it necessary or advisable, at any time before final acceptance of the Work, to make an examination of work already completed by uncovering, or removing or tearing out same, the Contractor shall, on request, promptly furnish all necessary facilities, labor, services and material. If such work is found to be defective the Contractor shall defray all expense of such examination and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the Contract Documents, the work of examination and replacement will be considered and compensated for as Extra Work ordered by the Awarding Authority and, in addition, if completion of the Work has been delayed thereby, an extension of time will be granted for such delay.

In order for this project to be "Substantially Complete" the following is required: Awarding Authority's receipt of the pre-final closeouts; a final inspection held and the project declared "Substantially Complete", in writing, signed by the Architect (if applicable) and the Awarding Authority. "Substantial Completion" means the designated work is sufficiently complete, in accordance with the contract documents, such that the Awarding Authority may occupy or utilize the work for the use intended in a safe and unencumbered manner, as represented by the contract documents. The date of Substantial Completion is the date upon which the contract time stops and all warranties for the designated work commence. The attached form (Attachment B) will officially document the substantial completion date.

18. SUPERINTENDENCE AND SUPERVISION:

The Contractor shall continuously supervise, direct and coordinate the Work, using its best skill, effort, knowledge, and attention during performance of the work. Contractor shall employ and maintain at the Project only competent supervisory personnel. Contractor's superintendent(s), whose qualifications are acceptable to the Awarding Authority, shall be at the site at all times during construction activity, and shall be authorized to act for Contractor in its absence If, for reasonable cause, the Owner refuses to approve the individual, or withdraws its approval after once giving it, the Contractor shall name a different superintendent for the Owner's review and approval. Any disapproved superintendent will not perform in that capacity thereafter at the Project site.

The Awarding Authority reserves the right to credit the contract for any unreasonable or uncustomary absence of the Superintendent(s) from the site. The Contractor shall not remove from the work a superintendent who is satisfactory to both Contractor and the Awarding Authority, unless his employment is terminated. At the Awarding Authority's discretion, work may be suspended, with no extension to the contract time, until such time that a qualified replacement acceptable to the Awarding Authority is provided. Contractor shall be responsible to the Awarding Authority for any acts or omissions of the Contractor, its employees and others engaged in the Work on behalf of the Contractor.

The Contractor shall provide a sufficient and appropriate level of superintendence to prosecute the work with diligence and to ensure adequate oversight, management, and supervision given the complexity, phasing, size, and/or affected area of the project.

In general, important verbal communications will be confirmed in writing to the Contractor, and these and other communications always upon written request of the Contractor.

The Contractor shall read, carefully study and compare all Drawings, Specifications, other instructions and related data, and promptly report in writing to the Awarding Authority, any ambiguity, conflict, inconsistency, discrepancy, error, omission, deviations from industry standards or from manufacturer's recommendations that it may discover. Contractor shall be liable for the performance and the cost of any necessary corrections resulting from adjustments or modifications of Contract Documents made without prior approval. If Contractor performs any of the Work knowing it involves a recognized error, conflict, inconsistency, discrepancy, or omission, deviations from industry standards or from manufacturer's recommendations, in the Contract Documents without notice to the Awarding Authority, the Contractors shall bear the responsibility for such performance and shall bear the cost of correction. If this condition is not observed, the Awarding Authority has the right to shut down the project immediately without any additional cost to the Awarding Authority.

19. CHANGES IN THE WORK:

A. GENERAL

1. The Owner at any time may make changes in the Work by changes in the Drawings and the Specifications of the Contract and within the general scope thereof. Changes will be in the form of a Contract Change Order based upon a written request of the Owner and a written proposal of the Contractor.

2. If the Owner directs a change in the work, the change shall be incorporated into the Contract by a Change Order prepared by the Architect and signed by the Architect, Contractor and Owner, acknowledging their agreement to the change or changes in the Work and the adjustments, if any, in the Contract Sum and Contract Time.

3. In advance of delivery of a fully executed Contracted Change Order, the Architect shall furnish to the Contractor a written authorization to proceed with an agreed change. However, such an authorization shall be effective only if it:

   (a) Identifies the Contractor's accepted or negotiated proposal for the change; and
   (b) States the agreed adjustments, if any, in Contract Sum and Contract Time; and
   (c) States that funds are available to pay for the change; and
   (d) Is authorized by the Owner

4. Subject to compliance with Alabama's Public Works Laws, the Owner may, upon agreement by the Contractor, incorporate previously un-awarded bid alternates into the Contract.

5. Consent of Surety will be obtained for all Contract Change Orders involving an increase in the Contract Sum.

6. Credits to the Owner for additive and deductive changes shall be governed by Article 19.B.2 and 19.B.3.

7. Changes in the Work shall be performed under applicable provisions of the Contract Documents and the Contractor shall proceed promptly to perform changes in the Work, unless otherwise directed by the Owner, through the Architect. When time is of the essence, and performance of the work is integral to the completion of other adjacent work, the Contractor must proceed immediately as directed by the Architect.

B. ADJUSTMENT OF CONTRACT SUM

1. METHODS: The adjustment of the Contract Sum resulting from a change in the Work shall be determined by one of the following methods, or a combination thereof, as selected by Owner.

   a) Lump Sum – By mutual agreement to a lump sum based on, or negotiated from, an itemized cost proposal from the Contractor. This amount shall be all-inclusive, covering direct costs, as well as any fees. Contractor shall furnish to the Owner an itemized breakdown of the quantities and prices to be used in estimating the value of any changes that might be ordered. For the purposes of this method, Contractor and Subcontractors, shall furnish, at a minimum, the following on their own letterhead; all material or vendor quotes (with quantities and unit cost), labor hours, labor rates, labor burdens (as defined in subparagraph 19.B.1.c.(vi), equipment, and any other relevant information necessary to analyze the quote. For the purpose of this method of determining and adjustment of the Contract Sum, "overhead" shall cover the Contractor's indirect costs of the change such as, but not limited to, the cost of bonds, insurance, superintendence and other job office personnel, watchman, job office, job office supplies and expenses, temporary facilities and utilities, and home office expenses.
      (i) For the Party performing the work, the cost of the work, less any credits, shall have a maximum markup for Overhead and Profit of 10%.
      (ii) The prime contractor or upper-tier subcontractor's markup on work performed by lower-tier subcontractors will be based on the net increased cost to the prime contractor or upper-tier subcontractor, as applicable, and shall not exceed 5%. No more than 5% shall be added by each successive lower-tier subcontractor, if applicable, for a maximum of 15%.
      (iii) 19.B.1.a)(i) and 19.B.1.a)(ii) shall also apply to Time and Materials changes.

   b) Unit Price – By estimating the number of unit quantities of each part of the Work which is changed and then multiplying the estimated number of such unit quantities by the applicable unit prices, if any, set forth in the Contract, or other mutually agreed unit prices. However, if the unit price originally agreed on is do materially changed that application of such unit price to quantities of Work proposed will cause

substantial inequity to either party, the applicable unit price shall be equitably adjusted and agreed to in advance of performing the work.

c) Time and Materials – If the contractor and Owner cannot agree on the amount of the adjustment in the Contract Sum for the change, the Owner, through the Architect may order the Contractor to proceed with the change on a Time and Materials basis, but the net cost to the Owner shall not exceed the amount quoted in the Contractor's proposal. Such order shall state that funds are available to pay for the change. When the Contractor proceeds with the change in the Work on a force account basis, the Contractor shall be reimbursed for reasonable expenditures incurred by the Contractor and its Subcontractors in performing added Work and the Owner shall receive reasonable credit for any deleted Work. The Contractor shall keep and present, in such form as the Owner may prescribe, and itemized accounting of the cost of the change together with sufficient supporting data. Unless otherwise stated in the directive, the adjustment of the Contract Sum for Time and Materials shall be limited to the following:

(i) cost of labor and supervision – at a minimum all labor should be detailed as follows: name, classification, date, daily hours, total hours and extensions for such laborers, Contractor shall submit actual copies of payrolls if requested;
(ii) cost of materials, supplies and equipment, including cost of delivery, whether incorporated of consumed;
(iii) rental cost of machinery and equipment, not to exceed prevailing local rates if contractor owned;
(iv) changes to be governed by Article 19.B.2 and 19.B.3;
(v) costs of permits and fees related to the change in the Work;
(vi) job labor burden is defined as follows: workers compensation insurance, FICA, federal and state unemployment insurance, retirement plan, and health insurance (single coverage only; no dental or vision), unless mutually agreed upon in writing within ten (10) days of the start of work.
(vii) Contractor shall submit proof of payment for burdens if requested.

2. ADDITIONS TO THE CONTRACT AMOUNT: The contract sum under any of the three (3) methods shall include the Contractor's direct cost plus a reasonable markup for overhead (as defined in 19.B.4 below). Overhead and profit for all changes shall be calculated in accordance with 19.B.1.a). Where subcontract work is involved, the total markup for shall not exceed the amount defined in 19.B.1.a). When the contractor's or subcontractor's portion of a change order request involves credit items, such items must be deducted prior to adding overhead and profit for the party performing the work. The contractor's fee is limited to the net increase to contractor or subcontractors' portions cost computed in accordance herewith.
3. DEDUCTIONS TO CONTRACT AMOUNT: When a change order request involves credit items only, a proper measure of the amount of downward adjustment in the contract prices is the reasonable cost to the contractor or subcontractor if they had performed the delegated work. A reasonable allowance for overhead and profit are properly includable as part of the downward adjustment of a deductive change. The amount of such allowance is negotiable.
4. MARKUPS AND OVERHEADS: For the purpose of determining an adjustment of the Contract Sum, "overhead" shall cover all of the Contractor's indirect costs, such as, but not limited to: the cost of insurance and bonds, superintendence and other job office personnel, watchman, job office, job office supplies and expenses, temporary facilities

and utilities, home office expenses; and all other indirect costs. No markups will be allowed on markups.

C. ADJUSTMENT OF CONTRACT TIME

1. If the Contractor determines that additional time is necessary resulting from the changes in the Work they shall notify the Owner and Architect in writing at the same time they give the Owner and Architect their cost proposal. Such notification shall explain in detail why they are requesting an extension in time. Such detail shall show at a minimum how the change affects the project's Critical Path. The Contractor shall utilize the most current CPM schedule to justify any extension of time. Should the Contractor fail to provide the Owner with an acceptable schedule within the time limits specified in the contract documents, the request will not be considered.

2. A cumulative extension of time will not be allowed for changes in the work that result in concurrent delays nor will time be allowed for changes concurrent with contractor delays.

3. Owner and Architect shall determine if an extension in time is necessary per the detail Contractor provides. They shall notify the Contractor in writing of their decision.

D. CHANGE ORDER PROCEDURES

1. OWNER PROPOSED:

   (a) If the Owner proposes to make changes in the Work, the Architect or Owner will request that the Contractor provide a cost proposal for making the change to the Work. The request shall be in writing and shall describe the proposed change by drawings, specifications, narrative or a combination thereof.

   (b) Within 10 days after receiving such a request, or such other time as may be stated in the request, the Contractor shall prepare and submit to the Architect a written proposal, properly itemized and supported by sufficient substantiating data to facilitate evaluation. The time may be extended only if, within that time, the Contractor makes a written request with a reasonable justification thereof.

2. CONTRACTOR PROPOSED:

   (a) The Contractor may voluntarily offer a change proposal which, in the Contractor's opinion, will reduce the cost of the construction, maintenance or operation or will improve the cost-effective performance of an element of the Project.

   (b) The Owner, through the Architect, will accept, reject or respond otherwise within 21 days after receipt of the proposal, or such other reasonable time as the Contractor may state in the proposal.

   (c) If the Contractor's proposal is acceptable to the Owner, or is negotiated to the mutual agreement of the Contractors and Owner, the Architect will prepare an appropriate Contract Change Order for execution. The Contractor shall then proceed as described in 19.A.7 above.

E. CONCEALED CONDITIONS

1. If the Contractor discovers conditions in the course of the work which are at a variance with the conditions indicated in the contract documents, notice must be given within 48 hours of the first observance of the condition in question.

2. If Contractor believes these conditions will add cost or time to the work it shall immediately begin to keep and maintain detailed, accurate and complete daily records concerning every detail of the potential claim.

3. The failure of the Contractor to keep such timely, detailed records shall be deemed to be a wavier by the Contractor of any claim based on concealed conditions.

F. PERFORMANCE PENDING PAYMENT RESOLUTION

1. If disagreements arise between the parties concerning the Change Order and any increase or decrease in the Contract Amount or lengthening or shortening of the contract time, the Contractor shall not suspend performance of the change in the Work itself unless ordered to do so by the Owner in writing. However, the Owner shall pay the Contractor an amount that the Owner estimates to be reasonable value for the change in the Work, regardless of the disagreement, if the change in the Work results in any increase in the contract amount. The Owner shall also have the right to decrease the contract amount by an amount the Owner estimates to be a reasonable value for the change in the Work, regardless of the disagreement, if the change in the Work results in decrease in the contract amount.

2. Pending agreement of the parties of final resolution of any dispute of the total amount due the Contractor for a change in the Work, amounts not in dispute for such changes in the Work may be included in Applications for Payment accompanied by an interim Change Order indication the parities' agreement with part of all of such cost or time extension. Once a dispute is resolved, it shall be implemented by preparation and execution of an appropriate Change Order.

G. AUDIT RIGHTS

If any changes to the Work results in an increase in Contract Amount the Contractor shall provide, and shall require its subcontractors to provide, access to the Owner at all reasonable times to any books, correspondence, receipts, vouchers, instructions, memoranda and records of any kind relating thereof, all of which shall be maintained by the appropriate party for a period of two (2) years commencing from the date Owner makes payment to Contractor for such Change in the Work. The Contractor authorized the Owners, and shall require its Subcontractors to authorize the Owner, to confirm balances due and/or paid for the change in the Work, and to obtain sworn statements and waivers of liens, all to be done if Owner so elects.

20. CLAIMS FOR EXTRA COST OR EXTRA WORK:

If the Contractor claims that any instructions, by drawings or otherwise, are not in accordance with the Contract Documents, and involve extra work under the Contract, Contractor shall give

the Awarding Authority written notice thereof within seven (7) days after receipt of such instructions, and in any event before proceeding to execute the work, and the procedure for determining the cost of extra work shall be as provided above under General Conditions, Article 19, CHANGES IN THE WORK. The giving of written notice within seven (7) days after receipt of the instructions giving rise to such claim is a condition precedent to any liability of the Awarding Authority thereof. The failure by the Contractor to give such notice and to give such notice prior to executing the Work shall constitute a waiver of any claim for payment for extra work. In connection with any claim by the Contractor against the Awarding Authority for compensation for extra work, any liability of the Awarding Authority for the Contractor's cost shall be strictly limited to direct costs incurred by the Contractor and shall in no event include indirect costs or consequential damages of Contractor. The Awarding Authority shall not be liable to the Contractor for claims of third parties, including Subcontractors, unless and until liability of the Contractor has been established thereof in a court of competent jurisdiction.

Should concealed and unknown conditions encountered in the performance of the Work below the surface of the ground or in an existing structure by at variance with the conditions indicated by the Contract Documents, or should unknown conditions of an unusual nature differing materially from those ordinarily encountered in the area and generally recognized as inherent in the Work of the character provided for in the Contract Documents be encountered, the compensation to be paid for the Work shall be equitably adjusted by Change Order pursuant to Article 19 of the General Conditions upon written notice and claim by either party made within seven (7) days after the first observance of the condition. As a condition precedent to the Awarding Authority having any liability to the Contractor for concealed and unknown conditions, the Contractor must give Awarding Authority and Designer written notice of, and an opportunity to observe, the condition prior to disturbing it. The failure of Contractor to make the written notice and claim as provided in this paragraph shall constitute a waiver by the Contractor of any claim arising out of or relating to such concealed or unknown condition.

21. DEDUCTIONS FOR UNCORRECTED WORK:

If the Awarding Authority deems it expedient to correct work injured or installed at variance with the contract requirements, the Awarding Authority may, if it finds it to be in its interest, allow part or all of such work to remain in place, provided and equitable deduction from the contract price is offered by the Contractor.

22. DELAYS; EXTENSION OF TIME:

Delays: If the Contractor is delayed in progressing any task which at the time of the delay is then critical, as set forth in the Contractor's Critical Path Method schedule approved by the Awarding Authority and Designer under Article 9, or which during the delay became critical, as set forth in the Contractor's Critical Path Method schedule approved by the Awarding Authority and Designer under Article 9, as the sole result of an act or omission of the Awarding Authority or of any other contractor on the site employed by the Awarding Authority, by strikes, lockouts, fires, abnormal floods, tornadoes, or other cataclysmic phenomenon of nature, or by causes beyond the Contractor's control, then Contractor may be entitled to an extension of time, conditional that the Contractor does not experience a concurrent delay, in which to complete the Work, provided however, that the Contractor shall give written notice of such cause to the Awarding Authority not more than seven (7) days after the occurrence of the event or the first appearance of the condition giving rise to the claim and shall set forth in detail the Contractor's basis for requiring additional time in which to complete the Work. Such time extensions shall only be allowed upon approval of the Awarding Authority. The failure of the Contractor to give such notice within seven (7) days shall constitute a waiver of any claim for an extension of time in which to complete the Work.

Extensions of time shall not be approved for delays due to rain, wind, flood, or other natural phenomenon of normal intensity for the locality, as defined by the NOAA 30 year average for the

City of Tuscaloosa and as measured at the project site, nor for any delay occurring more than seven (7) days before written claim therefor is submitted by the Contractor. Extensions of time shall not be approved unless the timing of the event actually and adversely impacts the scheduled work. Additionally, no extension of time will be approved for any disruption to site accessibility for annually recurring events at the University of Alabama. Such events include but are not limited to home athletic events, graduation ceremonies, and residential move in/out days.

Extension of Time: In the event any material changes, alterations or additions are made to the Work which will require additional time for the execution of any work under the Contract Agreement, the time of completion of the work may be extended by such a period of time as may be approved by the Awarding Authority, provided that in such case the Contractor shall make a written request for a time extension to the Awarding Authority within seven (7) days after being notified in writing of such material changes, alterations or additions. No extensions of time shall be given for any minor changes, alterations or additions in the Work. The failure by Contractor to make such written request for a time extension within (7) days shall constitute a waiver of any claim for an extension of time in which to complete the Work. The Contractor shall not be entitled to any reparation or compensation on account of additional time or extensions of time required for the execution of the Work.

23. CORRECTION OF WORK BEFORE FINAL PAYMENT:

Any defective work, whether the result of poor workmanship, the use of defective materials, damage through carelessness of the Contractor or its employees, or any other cause, shall be removed from the premises within ten (10) days after written notice is given by the Awarding Authority, and promptly replaced and re-executed by the Contractor in accordance with the Contract requirements and without expense to the Awarding Authority. The Contractor shall also bear the expense of making good all work of the Awarding Authority or its other contractors destroyed or damaged by such removal and replacement.

24. CORRECTION OF WORK AFTER FINAL PAYMENT:

Verification and approval of the Final Application for Payment and the making of the Final Payment by the Awarding Authority shall not relieve the Contractor of responsibility for faulty materials or workmanship. The Awarding Authority shall promptly give notice of observed defects due to faulty materials or workmanship, and any damage to other work resulting there from. In accordance with the terms of any general or special guarantees provided in the Contract, the Contractor shall promptly replace any such defects discovered within one year from the date of written acceptance of the Work or Final Payment therefor, whichever is prior.

25. AWARDING AUTHORITY'S RIGHT TO CORRECT DEFICIENCIES:

Upon failure or neglect by the Contractor to properly prosecute or perform the Work in accordance with the Contract Documents, including any requirements with respect to the CPM schedule and/or progress charts, and after ten (10) days written notice to the Contractor by the Awarding Authority, the Awarding Authority, without prejudice to any other remedy it may have, may correct such deficiencies and may deduct the actual cost thereof from payment then or thereafter due to the Contractor.

In instances where the Contractor's failure to properly prosecute and perform the Work in accordance with the Contract Documents has an actual, or imminent potential, adverse effect on public health, safety or convenience, the Awarding Authority may, after four (4) hours notice to the Contractor, and without prejudice to any other remedy it may have, correct such deficiencies and may deduct the actual cost thereof from payment then or thereafter due to the Contractor.

The Awarding Authority reserves the right to require the Contractor to provide, at Contractor's expense, a warranty bond for items not installed per the Contract Documents that may impair or reduce the reasonably expected service life of the building or related components or systems.

26. AWARDING AUTHORITY'S RIGHT TO TERMINATE CONTRACT:

A. TERMINATION FOR CAUSE

If the Contractor should be adjudged a bankrupt, or if Contractor should make a general assignment for the benefit or its creditors, or if a receiver should be appointed on account of Contractor's insolvency, or if Contractor should persistently or repeatedly refuse or fail, except in cases for which an extension of time is provided, to supply enough properly skilled workmen or proper materials, or if Contractor should fail to make prompt payment to Subcontractors for material or labor, or persistently disregard laws, ordinances, or the instructions of the Awarding Authority or Designer, or should otherwise be guilty of a substantial violation of any provision of the Contract, then the Awarding Authority, after giving the Contractor and its Surety, ten (10) days' written notice, may, without prejudice to any other right or remedy, terminate the employment of the Contractor and take possession of the premises and of all material, tools, equipment, and appliances thereon and finish the Work by whatever method the Awarding Authority may deem expedient. In such cases the Contractor shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the contract price shall exceed the expense of finishing the Work, including compensation for additional architectural, engineering, managerial, and administrative services, such excess shall be paid to the Contractor. If such expense shall exceed such unpaid balance, the Contractor shall pay the difference to the Awarding Authority upon demand.

B. TERMINATION FOR CONVENIENCE

1. The Awarding Authority may, without cause and at any time, terminate the performance of Work under the Contract in whole, or in part, upon determination by the Awarding Authority that such termination is in the Awarding Authority's best interest. Such termination is referred to herein as Termination for Convenience.

2. Upon receipt of a written notice of Termination for Convenience from the Awarding Authority, the Contractor shall:

   a) stop Work as specified in the notice;
   b) enter into no further subcontracts or purchase orders for items such as, but not limited to, materials, services, or facilities, except as may be necessary for Work directed to be performed prior to the effective date of the termination or to complete Work that is not terminated;
   c) terminate all existing subcontracts and purchase orders to the extent they relate to the terminated Work;
   d) take such actions as are necessary, or directed by the Architect or Awarding Authority, to protect, preserve, and make safe the terminated Work; and
   e) complete performance of the Work that is not terminated.

3. In the event of Termination for Convenience, the Contractor shall be entitled to receive payment for the Work performed prior to its termination, including materials and equipment purchased and delivered for incorporation into the terminated Work, which are the property of the Owner. Contractor shall also be entitled to receive payment for any

reasonable and customary costs directly related to the termination and calculated in a manner consistent with Article 19, Changes in the Work. The Contractor shall not be entitled to receive payment for any profits anticipated to have been gained from the terminated Work. A proposal for decreasing the Contract Sum shall be submitted to the Architect by the Contractor in such time and detail, and with such supporting documentation, as is reasonably directed by the Awarding Authority. Final modification of the Contract shall be by Contract Change Order pursuant to Article 19.

27. CONTRACTOR'S RIGHT TO TERMINATE THE CONTRACT:

If the Work should be stopped under an order of any court, or other public authority, for a period of ninety (90) days, through no act or fault of the Contractor or of anyone employed by it, then the Contractor may, after fourteen (14) days' written notice to the Awarding Authority, terminate this Contract and the Awarding Authority will reimburse the Contractor for all work properly executed and any loss sustained upon any plant or materials and any other proper item of damage.

28. APPLICATIONS FOR PARTIAL AND FINAL PAYMENTS:

Unless otherwise provided in the "Special Conditions" or the "Contract Agreement", the Awarding Authority will make partial payments to the Contractor within twenty (20) official UA business days from the date of a properly submitted and duly certified and approved estimate of work as prepared by the Contractor on an Application for Payment form approved by the Designer and the Awarding Authority and submitted to the Awarding Authority through the Designer.

The Contractor shall, within ten (10) days after the Notice to Proceed, submit to the Awarding Authority with the Application for Payment form, a complete breakdown or schedule of values of the contract price showing the value assigned to each of the various parts of the Work, including an allowance for overhead and profit, aggregating the total contract price, and divided to facilitate payments to Subcontractors. Where Labor and Materials are both involved with the prosecution of the Work they shall be listed separately on the Contractor's Schedule of Values to the approval of the Architect and UA Project Manager. Upon approval by the Awarding Authority, this breakdown of the contract price, unless later found to be in error, shall be used as a basis for all Applications for Payment. The Contractor shall supply with its schedule of values such data as the Designer and Awarding Authority may require to substantiate its accuracy. The Contractor shall not imbalance its schedule of values nor artificially inflate any element thereof.

An Application for Partial Payment shall include the Contractor's cost of materials not yet incorporated in the Work, but delivered and suitably stored. This includes materials stored both on-site and off-site. For materials stored off-site the Contractor shall provide proof of insurance in an amount equal to the cost of said stored materials as well as photographs or other documentation deemed appropriate by the Awarding Authority of said materials with their Application for Partial Payment. The Awarding Authority reserves the right to observe and monitor the off-site stored materials.

In making partial payments, there shall be retained (five) 5 percent on the estimated amounts complete plus stored material until completion of (fifty) 50 percent of the contract, after which no additional retainage will be withheld. This retainage will be held by the Awarding Authority until final completion, advertisement, and acceptance of all work covered by the Contract, when Final Payment of the entire balance found to be due will be made.

The Contractor, immediately after being notified by the Awarding Authority that all other requirements of the Contract Documents have been completed, shall give notice of said completion by an advertisement for a period of four (4) successive weeks in some newspaper of general circulation published within the county where the Work was performed. Proof of publication of said Notice shall be made in duplicate by the Contractor to the Awarding Authority

by affidavit of the publisher which shall include an original printed copy of the Notice published. Final Payment shall be due as noted by the Awarding Authority's verification of the Final Application for Payment.

29. VERIFICATION, CERTIFICATION AND APPROVALS FOR PAYMENT:

When the Contractor has made application for Partial or Final Payment, the Awarding Authority shall verify the Application for Payment and shall make payment to the Contractor for such amount as the Awarding Authority determines to be properly due, or state in writing to the Contractor the Awarding Authority's reasons for withholding verification and payment in whole or in part.

No such verification nor payment made to the Contractor, nor partial or entire use or occupancy of the work by the Awarding Authority shall be an acceptance of any work or materials not in accordance with the Contract.
All materials and work covered by partial payments made shall become the sole property of the Awarding Authority, but this provision shall not be construed as relieving the Contractor from the sole responsibility for the care and protection of materials and work upon which payments have been made or the restoration of any damaged work or as a waiver of the Awarding Authority's right to require the fulfillment of all the terms of the Contract Documents by the Contractor.

30. PAYMENTS WITHHELD:

A. The Awarding Authority may withhold payment of the whole, or any part, of a verified or approved Application for Payment to the extent necessary to protect it against loss on account of any of the following causes discovered subsequent to its verification or approvals:

1. Defective Work not remedied by the Contractor nor, in the opinion of the Awarding Authority, likely to remedied by Contractor;

2. Evidence indicating probable filing of claims by other parties against the Contractor;

3. Failure of the Contractor to promptly make payments to Subcontractors, or for materials labors, foodstuffs, and supplies;

4. Damage to another contractor under a separate contract with the Awarding Authority; or

5. Evidence indicating probable filing of claims by third parties against the Awarding Authority or the Awarding Authority's property;

6. A dollar value will be accessed for final inspection punch list items and held in addition to retainage until completed;

7. Reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance is insufficient to cover applicable liquidated damages.

B. When the above causes are removed, payments withheld will then be paid.

C. The Awarding Authority shall have the right to withhold from payments due to the Contractor under this Contract an amount equal to any amount which the Contractor owes the Owner under another Contract.

31. CONTRACTOR AND SUBCONTRACTOR INSURANCE: See Supplement General Conditions

32. CONTRACT BONDS:

In order to insure the faithful performance of each and every condition, stipulation, and requirement of the Contract, and to indemnify and save harmless the Awarding Authority from any and all damages, either directly or indirectly, the successful Bidder to whom the Contract is awarded shall, within fifteen (15) calendar days after the Contract Agreement has been presented to Contractor for signature, unless otherwise stipulated, furnish at its own expense, and file with the Awarding Authority, an acceptable Surety Bond in an amount equal to one hundred (100%) percent of the contract price of the Contract as awarded. Said Bond shall be made on the approved bond form, shall be furnished by a reputable surety company authorized to do business in the State of Alabama, shall be countersigned by an authorized agent resident to do business in the State of Alabama, shall be countersigned by an authorized agent resident in the State who is qualified for the execution of such instruments, and shall have attached thereto power of attorney of the signing official. In case of default on the part of the Contractor, all expenses incident to ascertaining and collecting losses suffered by the Awarding Authority under the Bond, including architectural, engineering, administrative, and legal services shall lie against the Contract Bond for Performance of the Work.

In addition thereto the successful Bidder to whom the Contract is awarded shall, within fifteen (15) days after the Contract Agreement has been presented to Contractor for signature unless otherwise stipulated, furnish at its expense, and file with the Awarding Authority, an acceptable surety bond for Payment of Labor, Materials, Feedstuffs, and Supplies payable to the Awarding Authority in amount not less than fifty (50%) percent of the contract price, with the obligation that the Contractor shall promptly make payment to all persons furnishing him or them with labor, materials, feedstuffs, or supplies for, or in, the prosecution of the Work, including the payment of reasonable attorney's fees incurred by successful claimants or plaintiffs in suits on said bond. The date of neither bond shall be earlier that the date of the Contract Agreement.

Bonds shall remain in force during the entire guarantee period stipulated in General Conditions, Article 24 CORRECTION OF WORK AFTER FINAL PAYMENT.

33. DAMAGES:

Should either party to the Contract suffer damages because of any wrongful act or neglect of the other party, or of anyone employed by it, claim shall be made in writing to the other party within a reasonable time of the first observance of such damage, and not later that the date of the Application for Final Payment, excepts as expressly stipulated otherwise in the case of faulty work or materials.

34. CLAIMS:

Neither the Final Payment nor any part of the retained percentage shall become due until the Contractor, if required, shall deliver to the Awarding Authority a complete release of all claims arising out of the Contract, or receipts in lieu thereof and, if required in either case, an affidavit that so far as Contractor has knowledge or information the releases and receipts include all the labor and material for which a claim could be filed; but the Contractor may, if any Subcontractor refuses to furnish a release or receipt in full, furnish a bond satisfactory to the Awarding Authority, to indemnify him against any claims. If any claim remains unsatisfied after all payments are made, the Contractor shall refund to the Awarding Authority all monies that the latter may be compelled to pay in discharging such a claim including all costs and a reasonable attorney's fee.

35. ASSIGNMENT:

The Contractor shall not assign the Contract or sublet it as a whole without the written consent of the Awarding Authority, nor shall the Contractor assign any monies due or to become due to it hereunder without the previous written consent of the Awarding Authority.

36. MUTUAL RESPONSIBILITY OF CONTRACTORS:

If the Contractor or any of its Subcontractors cause any loss or damage to any separate contractor with a prior, concurrent, or subsequent contract on the Work or on the site, or cause any undue delay to such separate contractor on the Work or on the site, and if such contractor makes claim against the Awarding Authority, on account of any loss so sustained, the Awarding Authority shall notify the Contractor who shall indemnify and save harmless the Awarding Authority against any expenses arising therefrom.

37. SEPARATE CONTRACTS:

The Awarding Authority may award other contracts for additional new construction, buildings or equipment, or for reconstruction, alteration, equipment, and improvements of existing buildings on the site, and the Contractor shall fully cooperate in the storage of materials and the detailed execution of work, coordinate and integrate its operations with such other contractors, and carefully fit its own work to that provided under other contracts. The Contractor shall not commit or permit any act which will interfere with the performance of work by any other contractor. The Contractor, including its Subcontractors, shall keep informed of the progress and the detail work of other contractors and shall notify the Awarding Authority immediately of lack of progress or defective workmanship on the part of other contractors, where such delay or such defective workmanship will interfere with its own operations of the Work.

38. SUBCONTRACTS:

Concurrent with the transmittal of the executed Contract Agreement by the Contractor, Contractor shall submit in writing to the Awarding Authority for approval the names of the Subcontractors proposed for the Work. Subcontractors that have been approved may not be changed thereafter except with the approval of the Awarding Authority. With this same submittal, Contractor shall also submit said subcontractor's Labor Burden Rate (as defined in Article 19.B.1.c.vi) for approval by the Awarding Authority.

The Contractor shall not engage any subcontractor to whom the Awarding Authority may have a reasonable objection, but it will not be required to engage any subcontractor against whom Contractor itself has a reasonable objection.

The Contractor shall be as fully responsible to the Awarding Authority for the acts and omissions of Subcontractors, and of persons employed by them, as Contractor is for the acts and omissions of persons directly employed by it.

Nothing contained in the Contract Documents shall create, or be construed as creating, privity of contract or any contractual relationship or agreement between the Awarding Authority and any Subcontractor, person or entity other than the Contractor.

39. RELATIONS OF CONTRACTOR AND SUBCONTRACTORS AND VENDORS:

The Contractor shall cause appropriate provisions to be inserted in all Subcontracts and Purchase Orders, including those items purchased under the Purchasing Agent Agreement,

relative to the Work, to bind Subcontractors and Vendors to the Contractor by the terms of the Contract Documents insofar as applicable to the work of Subcontractors and Vendors, and which require the Subcontractor and Vendor to assume all obligations and responsibilities to the Contractor, including the safety of the Subcontractor's work, which the Contractor owes the Awarding Authority under the Contract Documents and giving the Contractor any rights against the Subcontractor and Vendor that correspond to the rights afforded the Awarding Authority against the Contractor under the Contract Documents, including the same power of terminating any Subcontractors or Vendors that the Awarding Authority may exercise over the Contractor under any provisions of the Contract Documents.

The Articles, Divisions, Sections, or Paragraphs of the Specifications are not intended to control the Contractor in dividing the work among Subcontractors or Vendors or to limit the work performed by any trade.

The Contractor shall be solely responsible for the coordination of Subcontractors, of the trades, and material men engaged upon the Work.

The Contractor, without additional expense to the Awarding Authority, shall utilize the services of specialty subcontractors on those parts of the Work which are specified to be performed by specialty subcontractors.

The Awarding Authority will not undertake to settle any differences between the Contractor and its Subcontractors or Vendors or between Subcontractors.

40. DESIGNER'S STATUS:

Should a Designer's services be used the following describes its status. The Designer named in the Contract Documents, who prepared and furnished the Working Drawings and the Specifications contained therein, will prepare details and explanatory drawings, and provide instructions during the progress of the Work for transmittal by the Designer or Awarding Authority as above set forth under General Conditions, Article 3, ADDITIONAL DETAIL DRAWINGS AND INSTRUCTIONS. Designer will make its check of manufacturers' data and shop drawings submitted by the Contractor for the Work as set forth under General Conditions, Article 5, SHOP DRAWINGS.

The Designer, if employed by the Awarding Authority to do so, will endeavor to require the Contractor to strictly adhere to the plans and Specifications, to guard the Awarding Authority against defects and deficiencies in the work of the Contractor, and shall promptly notify the Awarding Authority in writing of any significant departure in the quality of materials or workmanship form the requirements of the plans and Specifications, but Designer does not guarantee the performance of the Contract.

The Designer shall not be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, unless spelled out in the Contract Documents, and Designer shall not be liable for results of the Contractor's failure to carry out the Work in accordance with the Contract Documents.

The Designer shall not be responsible for the acts or omissions of the Contractor, or any Subcontractors, or any of the Contractor's or Subcontractor's agents or employees, or any other persons performing any of the Work.

41. DESIGNER'S CHOICE:

The Designer's decisions in matter relating to the artistic effect of its work shall be final, if within the other terms of the Contract.

42. AWARDING AUTHORITY'S DECISIONS:

Except as hereinabove provided, any dispute, claim, or question concerning the interpretation or meaning of the Contract Documents, or concerning a breach of the Contract, shall be submitted in writing to the Awarding Authority and its decision shall be returned to the Contractor in writing.

43. CASH ALLOWANCES:

No cash allowances shall be included in the contract price, unless specifically set forth under SPECIAL CONDITIONS or MODIFICATIONS OF THE GENERAL CONDITIONS or ALLOWANCES in the Specifications. When so included, the Contractor shall include in the contract price all allowances named therein and shall procure any and all items or work covered by such allowances as directed by the Awarding Authority and Designer. The Contractor shall, in compliance with state and federal law, afford the Awarding Authority the economy of competitive pricing from responsible bidders for allowance items unless purchasing procedures are specified in the Contract Documents.

Unless otherwise provided in the Contract Documents:

(1) allowances shall cover the cost to the Contractor of materials and equipment delivered to the Project site and all applicable taxes remaining after purchases are made under the Purchasing Agent Agreement, less applicable trade discounts;

(2) the Contractor's costs for unloading, storing, protecting, and handling at the site, labor,
installation, overhead, profit and other expenses related to materials or equipment covered by an allowance shall be included in the Contract Sum but not in the allowances;

(3) if required, the Contract Sum shall be adjusted by Change Order to reflect the actual costs of an allowance.

Any procurement of materials or equipment required by the Architect or Owner under an allowance shall be made in sufficient time to avoid delay of the Work.

44. USE OF PREMISES:

The Contractor shall take every precaution against injuries to persons or damages to property.

The Contractor shall store its apparatus, materials, supplies, and equipment in such orderly fashion at the site of the Work as will not unduly interfere with the progress of its work or the work of any other contractors.

Unless otherwise provided, temporary storage sheds, shops, and office facilities may be erected on the premises with the approval of the Awarding Authority. Such temporary buildings and/or utilities shall remain the property of the Contractor and be removed at its expense upon completion of the Work, unless the Awarding Authority authorizes their abandonment without removal.

Necessary crossings of curbing, sidewalks, roadways and parkways shall be protected against damage, and any damage shall be repaired by or at the expense of the Contractor.

The Contractor shall not place upon the Work, or any part thereof, loads inconsistent with the safety of that portion of the Work.

The Contractor shall schedule work which will affect services or access to any building(s) or infrastructure on campus at a time convenient to the Awarding Authority and to minimize disruptions. The contractor shall perform any necessary work after regular working hours, at an accelerated rate, or on Sundays or legal holidays without extra compensation.

The Contractor shall provide and maintain such sanitary accommodations for the use of its employees and those of its Subcontractors as may be necessary to comply with the requirements and regulations of the local and State Department of Health and other regulatory agencies.

The Contractor shall be responsible for maintaining safe and unencumbered access and egress to and around the project site including all necessary temporary signage and pedestrian and vehicular protection.

45. CUTTING AND PATCHING:

The Contractor shall do all necessary cutting, fitting, and patching to properly receive the Work and to make its several parts join together as required by the Drawings and Specifications. After such cutting, Contractor shall replace or restore or repair all defective or patched work as required. Contractor shall not cut, excavate, or otherwise alter any work in a manner or by a method or methods that will endanger the Work, adjacent property, workers, the public, or the work of any other contractor.

The Contractor shall check the location of all sleeves, openings, slots, etc., for the piping, ducts, breeching, conduits, louvers, grilles, fans, etc., as they are laid out on the job.

Provision for openings, holes and clearances through walls, beams, floors, ceilings, and partitions shall be made and checked by the Contractor and/or its Subcontractor in advance for constructing such parts of the Work in order to avoid unnecessary, superfluous or dangerous cutting.

Unless otherwise specified, pipes passing through any parts of the Structure shall be provided with pipe sleeves two sizes larger that the pipe plus its insulation in order to provide independent movement.

Under no condition shall structural framing or other parts or members subjected to computed stress be cut or disturbed without the approval of the Designer. Any structural member which is cut must be restored by Contractor at its expense to its original strength by a method approved by the Designer.

In order to maintain design strengths, the Designer’s approval shall also be obtained before cutting or drilling holes in concrete or masonry.

46. PERIODIC AND FINAL CLEANUP:

The Contractor shall periodically clean up, and remove from the premises, all refuse, rubbish, scrap materials and debris to the end that at all times the premises are sanitary, safe, reasonably clean, orderly, and workmanlike. Trash and combustible materials shall not be allowed to accumulate inside buildings or elsewhere on the premises. At no time shall any rubbish be thrown from an opening.

Before final completion and final acceptance the Contractor shall remove from the Awarding Authority's property, and from all public and private property, all tools, scaffolding, falsework, temporary structures and/or utilities including the foundations thereof (except such as the Awarding Authority permits in writing to remain); rubbish and waste materials; and all surplus materials, leaving the site clean and true to line and grade, and the Work in a safe and clean condition, ready for use and operation.

In addition to the above, the Contractor shall be responsible for the following special cleaning for all trades as the work shall have been completed:

A. cleaning of all painted, enameled, stained, or baked enamel work: Removal of all stains, fingerprints, and splatters from such surfaces.

B. cleaning of all glass: cleaning and removing of all stickers, labels, stains, and paint from all glass, and the washing and polishing of the interior and exterior of the same,

C. cleaning or polishing of all hardware;

D. cleaning all tile and floor finishes of all kinds: removal of all splatters, stains, paint, dirt and dust, and the washing and polishing of all floors as recommended by the manufacturer or as required by the Awarding Authority.

E. cleaning of all manufactured articles, materials, fixtures, appliances, and equipment: removal of all stickers, rust stains, labels and temporary covers; cleaning and conditioning of all manufactured articles, material, fixtures, appliances and electrical, heating and air conditioning equipment as recommended or directed by the manufacturers, unless otherwise required by the Awarding Authority; blowing out or flushing out of all foreign matter form all dust pockets, piping, tanks, pumps, fans, motors, devices, switches, panels, fixtures, boilers or similar features; and freeing or cleaning identification plates on all equipment of excess paint and the polishing thereof.

47. GUARANTEE OF THE WORK:

Except as otherwise specified in the Modifications of the General Conditions or in the Special Conditions, all work, including those items purchased under the Purchasing Agent Agreement, shall be guaranteed by the Contractor against defects of materials, equipment, or workmanship for one year from the date of Substantial Completion of the Contract. If, within any guarantee period, repairs or changes which, in the opinion of the Awarding Authority, are required as the result of the use of such materials, equipment, or workmanship which are inferior, defective, or not in accordance with the terms of the Contract Documents, the Contractor, promptly upon receipt of notice from the Awarding Authority, and without expense to the Awarding Authority, shall:

A. place in satisfactory condition in every particular all of such guaranteed work, correcting all defects therein; and

B. make good all damage to the building or site, or equipment or contents thereof, which is the result of the use of materials, equipment, or workmanship which are inferior, defective, or not in accordance with the terms of the Contract; and

C. make good any work or material, or the equipment and contents of said building or site disturbed in fulfilling any such guarantee.

D. provide, at Contractor's expense, a warranty bond for items not installed per the Contract Documents, but left in place that may impair or reduce the reasonably expected service life of the building or related components or systems.

In any case wherein fulfilling the requirements of the Contract or of any guarantee embraced in or required thereby, the Contractor disturbs any work guaranteed under another contract, Contractor shall restore such disturbed work to a condition satisfactory to the Awarding Authority and guarantee such restored work to same extent as it was guaranteed under such other contract.

If the Contractor, after notice, fails to proceed promptly to comply with the terms of the guarantee, the Awarding Authority may have the defects corrected and the Contractor and its Surety shall be liable for all expense incurred.

All special guarantees applicable to definite parts of the work that may be stipulated in the Contract Documents shall be subject to the terms of this paragraph during the first year of the life of such special guarantee.

48. POSSESSION PRIOR TO COMPLETION:

The Awarding Authority shall have the right use any completed or partially completed part of the Work. Such use shall not be deemed an acceptance of any Work not completed in accordance with the Contract Documents. If, however, such prior use by the Awarding Authority delays the progress of the Work or causes additional expenses to the Contractor, an equitable adjustment in the contract price and/or time of completion will be made and the Contract will be modified in writing accordingly. Use pursuant to Article 37 by the Awarding Authority's contractor shall not constitute possession or the Work.

49. LIQUIDATED DAMAGES:

Time is of the essence of the Contract. Any delay in the completion of the Work as provided for in the Contract Documents will cause inconvenience to the public and will cause loss and damage to the Awarding Authority in additional interest and administrative, architectural, inspection and supervision charges. It is important that this Work be completed within the contract time limits.

Therefore, unless specified otherwise under SPECIAL CONDITIONS or MODIFICATIONS OF THE GENERAL CONDITIONS, a time charge equal to nine percent (9%) interest per annum of the total contract price will be made against the Contractor for the entire period that any part of the Work remains uncompleted after the time specified for the completion of the Work as provided in the Contract Documents. The amount of the time charge shall be deducted from the final estimate and shall be retained out of monies otherwise due the Contractor in Final Payment, not as a penalty, but as liquidated damages sustained, it being mutually understood and agreed between the contracting parties that such amount is reasonable as liquidated damages.

50. USE OF FOREIGN MATERIALS:

In accordance with the provisions of Article 39-3-1, Code of Alabama (1975) the Contractor shall use only materials, supplies, and products manufactured, mined, processed or otherwise produced in the United States or its territories, if same are available at reasonable and competitive prices and are not contrary to any sole source specification implemented under Article 39-2-2(f), Code of Alabama (1975).

If Contractor breaches this agreement to use domestic products, and domestic products are not used, there shall be a downward adjustment of the contract price equal to any realized savings or benefits to the Contractor.

In accordance with the provisions of Article 39-3-4, Code of Alabama (1975), the Contractor shall use only steel produced in the United States or its territories when specifications in the Contract Documents require the use of steel. If, in the opinion of the Awarding Authority, the procurement of such domestically produced steel products is impractical as a result of a national emergency, national strike, or other causes, it may waive this restriction for building construction. If Contractor breaches this agreement to use domestic steel products, and domestic steel products are not used, the Contract Agreement shall be automatically revoked and Contractor shall not be entitled to any recoupment for labor or materials used up to the time of such revocation.

51. EQUAL OPPORTUNITY:

The nondiscrimination clause contained in Article 202, Executive Order 11246, as amended by Executive Order 11375, relative to Equal Employment Opportunity for all persons without regard to race, color, religion, sex or national origin, and the implementing rules and regulations prescribed by the Secretary of Labor, are incorporated herein.

52. SIGN:

Unless deleted under SPECIAL CONDITIONS, MODIFICATIONS OF THE GENERAL CONDITIONS, OR DIRECTED BY THE AWARDING AUHTORITY the Contractor will erect a sign at the project site identifying the project and indicating those entities participating in the development of the project. Information to be lettered on the 4’ x 8’ exterior grade plywood sign will be furnished to the Contractor by the Awarding Authority. The sign is to be maintained in good condition until completion of the project at which time the Contractor shall remove it from the site. Details of construction of the sign shall be as Attachment A.

53. NO SMOKING POLICY:

The Contractor shall strictly enforce “No Smoking” when working inside existing buildings and inside new construction.

54. PARKING & TRANSPORTATION REQUIREMENTS:

No permits will be provided for construction vehicle parking in University designated parking areas. No permit required within construction fenced areas. Parking within construction fenced areas is to be directed and controlled by the Contractor and at the sole discretion of the contractor. The contractor shall provide a minimum of three (3) spaces for University personnel on site. As a convenience, The University shall provide designated offsite parking for workers and transportation to the project site as required by the project schedule, but not outside the hours of 6:30 AM to 8:00AM and 3:30 PM to 5:00 PM.

55. CONSTRUCTION DEBRIS REPORTING

The Contractor will be responsible for tracking and reporting the construction debris (in tons) for the project. Construction debris consists of debris generated during the construction, renovation, and demolition of buildings or roads that is discarded in a permitted construction and materials landfill. Debris may include but not limited to: concrete, brick, stone, metals, glass, plastics, gypsum drywall, wood, and asphalt. Submission of this report will be required at project closeout. It is not our intention to obtain tonnage for dirt. A certified report will be turned in as a part of Closeout documents.

56. COMMERCIAL USE OF IMAGES OF THE WORK

Contractor shall not use photographs, video, drawings or any other visual representation of the Work for the commercial promotion of the Contractor's business without the prior written permission of the Owner. This includes, but is not limited to, print and video advertisements, use at trade shows, submissions to professional organizations, and display on the Contractor's web site. This provision shall also be binding on any of the Contractor's subcontractors and Contractor shall require its subcontractors to agree to be bound by its terms.

END OF GENERAL CONDITONS OF THE CONTRACT

SUPPLEMENTAL GENERAL CONDITIONS

1.1 The attached Insurance Requirements are to be used in lieu of Section 31 of the General Conditions.

1.2 Bidders **are not** to include Sales, Use, or Severance Taxes in their bids.

1.3 Awarded Bidder must show evidence of being enrolled in the U.S. Government E-Verify Program. Said evidence shall be submitted with the Contract for Construction. Failure to do so will be grounds for Contract not to be executed.

1.4 Awarded General Contractors shall accept Electronic Funds Transfer (Direct Deposit) in lieu of paper checks. They will receive a confirmation e-mail giving all details. See attached form. The URL for this form on-line is http://www.fa.ua.edu/procurement/Forms/ACCOUNTS%20PAYABLE/Direct-Deposit.pdf

1.5 Awarded General Contractors shall cause all vendors to fill out Electronic Funds Transfer (Direct Deposit) form and submit to The University. See paragraph #4 of the Purchasing Agent Agreement. See attached form. The URL for this form on-line is http://www.fa.ua.edu/procurement/Forms/ACCOUNTS%20PAYABLE/Direct-Deposit.pdf

1.6 Progress schedule not submitted per Section 9 of General Conditions will result in the project being shut down until submitted, with time still running.

1.7 It is a goal of the University of Alabama (UA) to encourage the use of Certified Minority-owned businesses and Certified Women-owned businesses in its construction program. The University has established a goal of 5% for this project. All winning bidders shall identify any Minority-owned or Women-owned businesses using the University's form labeled "Attachment 5-A". Attachment 5-A should be submitted along with the list of subcontractors. At the completion of the project the General Contractor shall give an accounting of all monies spent with these firms which shall be signed by said firms and notarized using "Attachment 11 Payment Voucher Form. All payments to said firms must be made within 30 days of corresponding payment(s) made by UA to the General Contractor unless UA gives its approval for a time extension to the General Contractor in writing. All Minority and Women-owned businesses shall have the appropriate insurance, bonds, licenses, etc. that would be required of any subcontractor as required through the General Contractor's contract.

END OF SUPPLEMENTAL GENERAL CONDITIONS
Revision Date: 5/31/12

Insurance

Contractor shall procure and maintain, at its expense, the following minimum insurance coverage insuring all services, work activities and contractual obligations undertaken in this Contract. Contractor shall bear the full and complete responsibility for all risk of damage or loss of equipment, products, or money resulting from any cause whatsoever and shall not penalize the University for any losses incurred in association with this agreement. It is the Contractor's responsibility to verify compliance of their company's insurance coverage with the following requirements and to obtain pricing to meet these requirements prior to submitting the solicitation response. These insurance policies must be with insurers acceptable to the University. Insurance requirements may be modified in the Insurance Requirements section of any solicitation document. In such cases, the requirements of the solicitation shall prevail.

Contractor shall assume all risk of loss or damage for property loaned, leased, rented to, or in possession of the University. This includes the loss of value due to the damage or other financial loss resulting from an inability to use the property for future endeavors. Contractor has the option to purchase property insurance on property, loaned, leased or rented to the University and the cost of insurance shall be the obligation of the contractor.

These limits may be accomplished through a combination of primary and excess/umbrella liability policies written on a follow form basis. A Contractor with a desire to self-insure part or all of insurance requirements outlined above must provide audited financials for the most recent fiscal year for review and acceptance by the University. If Contractor is owned by a parent company and the financials are in the name of the parent, the University requires a parental guarantee contract for the obligations accepted by the Contractor. The University reserves the right to review and revoke self-insure status, if Contractor's financial ratings with Standard & Poor and/or Fitch ratings drop below investment grade, there is a material change in the audited financials, or Contractor entity is acquired or there is any change in the ownership structure.

TYPES OF INSURANCE	**BASIC INSURANCE POLICY MINIMUM LIMITS OF LIABILITY**
Worker's Compensation	Statutory – Alabama (or state of residence)
Employers Liability	$500,000 (each employee, each accident and policy limit)
Commercial General Liability: Each Occurrence Personal and Advertising Injury Products/Completed Operations General Aggregate Fire Damage Liability (Not necessary unless leasing UA property)	 $1,000,000 $1,000,000 $1,000,000 $2,000,000 $100,000
Automobile Liability	$1,000,000 each accident - combined single limit

The Board of Trustees of The University of Alabama, its individual trustees, officers, directors, employees, agents and representatives must be included as an additional insured as respect to the Commercial General Liability & Excess/Umbrella policy. Unless precluded by law, all policies waive the right to recovery or subrogation against the Board of Trustees of The University of Alabama, its individual trustees, officers, directors, employees, agents and representatives. Coverage is to be primary and non-contributory with other coverage, if any, purchased by the University.

The insurance policies shall be issued by an insurance company licensed to do business in the State of Alabama carrying an AM Best's rating of A- VII or better, and the certificate must be signed by an authorized agent.

The general and excess/umbrella liability must extend additional insured provisions and must include the following language on the certificate of insurance:

The Board of Trustees of The University of Alabama, its individual trustees, officers, directors, employees, agents and representatives are included as an additional insured as respect to the Commercial General Liability & Excess/Umbrella policy. Unless precluded by law, all policies waive the right to recovery or subrogation against the Board of Trustees of The University of Alabama, its individual trustees, officers, directors, employees, agents and representatives.

The certificate holder will be: The University of Alabama, c/o Purchasing Dept., Box 870130, Tuscaloosa, AL 35487-0130, ATTN: Marlene Thomas. A fax copy of the certificate may be sent for a verbal purchase order, but the original certificate of insurance must be received by the University prior to the purchase order being mailed to the Contractor or payment being made.

In the event the insurance program required by the University were to have any pending claims, either at the time the certificate of insurance was produced or to later come to the attention of the Contractor, which may limit or exhaust any aggregate limits by more than 20%, the University shall be notified within 30 days. The University may require additional insurance or a reinstatement of the limits of liability, as necessary to protect the financial interest of the University.

In the event the Contractor was to cancel, alter, non-renew or allow the required insurance program to be modified to a material degree, the Contractor must provide immediate written notice to the University explaining the situation. Failure to maintain the required insurance program may result in cancellation or suspension of the contract until a replacement certificate of insurance evidencing coverage in compliance with the University's insurance.

SECTION 011000 - SUMMARY

PART 2 - GENERAL

2.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to all Sections in the Project Manual.

1. The Contractor shall issue a copy of all Division 01 Sections, including copy of Table of Contents, when issuing a partial set of specifications to other contractors. Issuing partial sets of construction documents is discouraged by the Architect and the Owner.

2.2 SUMMARY

A. This Section includes the following:

1. Project information.
2. Work covered by the Contract Documents.
3. Work under separate contracts.
4. Owner-furnished products.
5. Access to site.
6. Coordination with occupants.
7. Work restrictions.
8. Specification and drawing conventions.

2.3 PROJECT INFORMATION

A. Project Identification: New Strength & Conditioning Facility – Furniture / Equipment / Technology Package

1. Project Location: University of Alabama, Tuscaloosa, Alabama.

B. Owner: The University of Alabama.

C. Architect: Davis Architects, Inc.; 120 Twenty Third Street South, Birmingham, Alabama 35233.

2.4 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of the Project is defined by the Contract Documents and consists of the following:

1. Audio-Visual Equipment, and installation including all required wiring, in the 34,945 square foot expansion of the Hank Crisp Indoor Practice Facility.

Type of Contract:

1. Project will be constructed under a single prime contract.

Contract Time of Completion:

1. The entire Work shall be Substantially Complete on January 31, 2013. The contractor shall have access to the site to begin their work no later than January 1, 2013.

2.5 WORK UNDER SEPARATE CONTRACTS

A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.

B. Preceding Work: Owner has awarded a separate contract for the following construction operations at Project site, identified as Strength & Conditioning Facility. Those operations will be ongoing when work under this Contract begins. A/V contractor must coordinate his work with this contractor.

2.6 OWNER-FURNISHED PRODUCTS

A. Owner will furnish products indicated.

1. Electrical conduit will be in place for A/V contractor to install wiring and cable, unless noted otherwise on the drawings.

2.7 ACCESS TO SITE

A. General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicated by requirements of this Section.

B. Use of Site: Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Driveways, Walkways and Entrances: Keep driveways loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.

a. Schedule deliveries to minimize use of driveways and entrances by construction operations. Coordinate all deliveries with the Athletic Department.

b. Schedule deliveries to minimize space and time requirements for storage of materials equipment on-site.

c. No deliveries between 7:30 a.m. – 8:15 a.m. Monday – Friday.

2.8 COORDINATION WITH OCCUPANTS

A. Full Owner Occupancy: Owner will occupy site and existing building during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.

1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.

2. Notify the Owner not less than 72 hours in advance of activities that will affect Owner's operations.

3. Existing parking lots and streets will remain in use and are not available for construction personnel, except as approved by Owner.

4. Owner must have clear access to loading docks at Hank Crisp and Mal Moore Athletic Facility. This is most critical two days before home games and two and a half days prior to away games.

B. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed portions of the Work, prior to Substantial Completion of the Work, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.

1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner acceptance of the completed Work.

2. Obtain a Certificate of Occupancy from authorities having jurisdiction before limited Owner occupancy.

3. Before limited Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of Work.

4. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of Work.

2.9 WORK RESTRICTIONS

A. Work Restrictions, General: Comply with restrictions on construction operations.

1. Comply with limitations on use of public streets and other requirements of authorities having jurisdiction.

B. On-Site Work Hours: Work shall be generally performed during normal business working hours of 7:00 a.m. to 6:00 p.m., Monday through Friday, except otherwise indicated.

1. Weekend Hours: As agreed during the preconstruction meeting.

2. Early Morning Hours: As agreed during the preconstruction meeting.

3. Hours for Utility Shutdowns: 72 hours prior notice.

4. Game Weekends: No work to be performed after 12:00 PM on Friday to 7:00 AM on Sunday.

C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:

1. Notify Owner not less than two days in advance of proposed utility interruptions.

2. Obtain Owner's written permission before proceeding with utility interruptions.

D. Welding Permit: Perform cutting or welding in accordance with NFPA 51B. Schedule work in advance with the UA Project Manager.

1. Contact Janie Fowler with Environmental Health and Safety (EHS) at 348-5905 for daily fire alarm local disabling, to be restored by end of day.

2. Contractors not notifying EHS and incurring a fire department call are responsible for all costs due to a false alarm fire call.

3. Upon discovery of violations, EHS is empowered to temporarily close the jobsite until corrective measures are taken by the Contractor.

E. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor air intakes.

F. Sports Related Attire: College or pro-sport attire displaying team names and school names are prohibited on project site. All construction personnel must comply. Violators will be removed from the project site.

2.10 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 1 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and projects:

1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.

2. Abbreviations: Materials and products are identified by abbreviations published as part of the U. S. National CAD Standard and scheduled on Drawings.

END OF SECTION 011000

SECTION 012300 - ALTERNATES

PART 3 - GENERAL

3.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

3.2 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

3.3 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 4 - PRODUCTS (Not Used)

PART 5 - EXECUTION

5.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Add 4 ea. 70” Portrait monitors on north wall. (Base Bid – No monitors on north wall.)

END OF SECTION 012300

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for substitutions after contract award.

B. Related Requirements:

1. Instructions to Bidders for substitution requests prior to bidding.
2. Section 016000 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.2 DEFINITIONS

A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.

2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

3. Approval of an unnamed manufacturer offering products equal to the specified products is not considered a substitution.

1.3 ACTION SUBMITTALS

A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

B. Product substitutions will only be considered in the event of the following:

1. Specified product is no longer available.
2. The specified product is not appropriate for use, in the opinion of the Contractor.

a. Upon evaluation, the Architect will determine whether a product substitution is required.

3. Substitution Request Form: Use CSI Form 13.1A.
4. Documentation: Show compliance with requirements for substitutions and the following, as applicable:

a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
c. Detailed comparison of significant qualities of proposed substitution with those of

the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.

d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
e. Samples, where applicable or requested.
f. Certificates and qualification data, where applicable or requested.
g. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
i. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
j. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
k. Cost information, including a proposal of change, if any, in the Contract Sum.
l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.

5. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.4 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.5 PROCEDURES

A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 – PRODUCTS

2.1 SUBSTITUTIONS

A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.

1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied:

a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
b. Requested substitution will not adversely affect Contractor's construction schedule.
c. Requested substitution has received necessary approvals of authorities having jurisdiction.
d. Requested substitution is compatible with other portions of the Work.
e. Requested substitution has been coordinated with other portions of the Work.
f. Requested substitution provides specified warranty.
g. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

B. Substitutions for Convenience: Not allowed unless otherwise indicated.

PART 3 - EXECUTION (Not Used)

END OF SECTION 012500

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

5.2 SUMMARY

A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

5.3 MINOR CHANGES IN THE WORK

A. Architect will issue supplemental instructions authorizing Minor Changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

5.4 PROPOSAL REQUESTS

A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.

1. Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
2. Within seven (7) days after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.

a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
b. Indicate delivery charges, equipment rental, and amounts of trade discounts.
c. Do not indicate sales tax. Owner’s status as a state entity is exempt from sales, use, and severance taxes.
d. Include costs of labor and supervision directly attributable to the change.
e. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship.

B. Contractor-Initiated Proposals: If latent or unforeseen conditions require modifications to the Contract, Contractor may propose changes by submitting a request for a change to Architect.

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.

3. Indicate delivery charges, equipment rental, and amounts of trade discounts. Do not indicate sales tax. Owner's status as a state entity is exempt from sales, use, and severance taxes.
4. Include costs of labor and supervision directly attributable to the change.
5. Include an updated Contractor's Construction Schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship.
6. Comply with requirements in Section 012500 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
7. Proposal Request Form: Use form acceptable to Architect.

5.5 ADMINISTRATIVE CHANGE ORDERS

A. Allowance Adjustment: See Section 012100 "Allowances" for administrative procedures for preparation of Change Order Proposal for adjusting the Contract Sum to reflect actual costs of allowances.

5.6 CHANGE ORDER PROCEDURES

A. Owner shall approve any/all Work Changes, the University will issue a change order purchase order once changes have been approved.

5.7 CONSTRUCTION CHANGE DIRECTIVE

A. Construction Change Directive: Architect may issue a Construction Change Directive on AIA Document G714. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.

B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.

1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 6 - PRODUCTS (Not Used)

PART 7 - EXECUTION (Not Used)

END OF SECTION 012600

SECTION 012900 - PAYMENT PROCEDURES

PART 8 - GENERAL

8.1 SUMMARY

A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.

8.2 SCHEDULE OF VALUES

A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's Construction Schedule.

1. Correlate line items in the Schedule of Values with other required administrative forms and schedules, including the following:

a. Application for Payment forms with Continuation Sheets.
b. Submittal Schedule.

2. Submit the Schedule of Values to Architect at earliest possible date but no later than seven days before the date scheduled for submittal of initial Applications for Payment.

B. Format and Content: Use the Project Manual table of contents as a guide to establish line items for the Schedule of Values. Provide at least one line item for each Specification Section.

1. Identification: Include the following Project identification on the Schedule of Values:

a. Project name and location.
b. Name of Architect.
c. Architect's project number.
d. Contractor's name and address.
e. Date of submittal.

2. Arrange the Schedule of Values consistent with format of AIA Document G703.
3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with the Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of Contract Sum.
4. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
5. Provide separate line items in the Schedule of Values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
6. Allowances: Provide a separate line item in the Schedule of Values for each allowance. Show line-item value of unit-cost allowances, as a product of the unit cost, multiplied by measured quantity. Use information indicated in the Contract Documents to determine quantities.
7. Each item in the Schedule of Values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.

8.3 APPLICATIONS FOR PAYMENT

A. Each Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.

B. Payment Application Forms: Use forms provided by Owner in the Project Manual for Applications for Payment.

C. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.

1. Entries shall match data on the Schedule of Values and Contractor's Construction Schedule. Use updated schedules if revisions were made.
2. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.

D. Transmittal: Submit four (4) signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.

1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.

E. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's liens from entities lawfully entitled to file a mechanic’s lien arising out of the Contract and related to the Work covered by the payment.

1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
2. When an application shows completion of an item, submit final or full waivers.
3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
4. Waiver Forms: Submit waivers of lien on forms, executed in a manner acceptable to Owner.

F. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:

1. List of subcontractors.
2. Schedule of Values.
3. Contractor's Construction Schedule.
4. Submittal schedule.
5. List of Contractor's staff assignments.
6. List of Contractor’s principal consultants.
7. Copies of building permits.
8. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
9. Initial progress report.
10. Report of preconstruction conference.
11. Certificates of insurance and insurance policies.

G. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.

1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.

H. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:

1. Evidence of completion of Project closeout requirements.
2. Updated final statement, accounting for final changes to the Contract Sum.
3. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
4. AIA Document G706A, "Contractor's Affidavit of Release of Liens."
5. AIA Document G707, "Consent of Surety to Final Payment."
6. Evidence that claims have been settled.

I. Final Payment: The following items are prerequisites to final payment. Submit written documentation bound in 3-ring loose-leaf binders. Submit three copies.

1. Contractor's Warranty.
2. Subcontractors' Warranties: Guarantees covering work described under respective Sections. Include a summary of duration of all guarantees from established date of Substantial Completion.
3. Certify that final cleaning has been completed as specified in Section 017700 "Closeout Procedures."
4. Miscellaneous Checklist: Submit the following items, some of which may be listed elsewhere in the Project Manual.

a. Proof of Advertisement of Completion.
b. Evidence that all invoices and pay applications related to this project have been paid.
c. Record documents as specified in Section 017839 "Project Record Documents."
d. Release of liens from Contractor and all subcontractors.
e. Certificate of Occupancy.
f. Operation and Maintenance Manuals as specified in Section 017823 "Operation and Maintenance Data.
g. Safety meeting minutes.
h. Certification that demonstration and training has been completed in accordance with Section 017900 "Demonstration and Training."
i. Delivery of maintenance stock.

1) Provide a materials checklist indicating each item, quantity installed, and quantity of extra materials furnished.
2) Where multiple colors, types, and styles are specified, include quantity for each using same designations as the contract documents.

j. Receipt for return of keys.
k. Test and balance reports.
l. Controls drawings.
m. Carpet certifications.
n. Consent of surety to final payment
o. Fire alarm certification
p. Fully executed Certificate of Substantial Completion.
q. Execution of final Change Order.
r. Certification from A/E or UA Project Manager that final punch lists have been completed in their entirety.

PART 9 - PRODUCTS (Not Used)

PART 10 - EXECUTION (Not Used)

END OF SECTION 012900

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:

1. General coordination procedures.
2. Requests for Information (RFIs).
3. Project meetings.

B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.

1.2 DEFINITIONS

A. RFI: Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.3 INFORMATIONAL SUBMITTALS

A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:

1. Name, address, and telephone number of entity performing subcontract or supplying products.
2. Number and title of related Specification Section(s) covered by subcontract.
3. Drawing number and detail references, as appropriate, covered by subcontract.

1.4 GENERAL COORDINATION PROCEDURES

A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.

1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
3. Make adequate provisions to accommodate items scheduled for later installation.

B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.

1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.

C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

1. Preparation of Contractor's construction schedule.
2. Preparation of the schedule of values.
3. Installation and removal of temporary facilities and controls.
4. Delivery and processing of submittals.
5. Progress meetings.
6. Pre-installation conferences.
7. Mockup construction.
8. Project closeout activities.
9. Startup and adjustment of systems.

D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.

E. Project Closeout Meeting: When project construction reaches 95 percent complete, schedule a closeout meeting to discuss in detail all requirements for completing and closing out the project.

1. See Section 017700 “Closeout Procedures” for project closeout items.

1.5 REQUESTS FOR INFORMATION (RFIs)

A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.

1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:

1. Project name.
2. Project number.
3. Date.
4. Name of Contractor.
5. Name of Architect.
6. RFI number, numbered sequentially.
7. RFI subject.
8. Specification Section number and title and related paragraphs, as appropriate.
9. Drawing number and detail references, as appropriate.
10. Field dimensions and conditions, as appropriate.
11. Contractor's suggested resolution. If Contractor's solution(s) impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
12. Contractor's signature.

13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.

C. RFI Forms: Software-generated form with substantially the same content as indicated above, acceptable to Architect.

D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.

1. The following RFIs will be returned without action:

a. Requests for approval of submittals.
b. Requests for approval of substitutions.
c. Requests for coordination information already indicated in the Contract Documents.
d. Requests for adjustments in the Contract Time or the Contract Sum.
e. Requests for interpretation of Architect's actions on submittals.
f. Incomplete RFIs or inaccurately prepared RFIs.

2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."

a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 10 days of receipt of the RFI response.

E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log at each project meeting. Include the following:

1. Project name.
2. Name and address of Contractor.
3. Name and address of Architect.
4. RFI number including RFIs that were dropped and not submitted.
5. RFI description.
6. Date the RFI was submitted.
7. Date Architect's response was received.

F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response.

1. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.
2. Identification of related Field Order, Work Change Directive, and Proposal Request, as appropriate.

1.6 PROJECT MEETINGS

A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.

1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.

B. Quality Control Pre-Construction Conference: Schedule and conduct a quality control preconstruction conference to review the detailed quality control and construction requirements for all materials and/or systems as appropriate, not less than 10 working days prior to commencement of the applicable portion of the work.

1. The Contractor shall require responsible representatives of each party concerned with that portion of the work to attend the conference, including but not limited to the following:

    a. Contractor's superintendent.
    b. Materials supplier(s) or fabricator.
    c. Installation subcontractor(s).
    d. Agency responsible for Contractor-furnished testing.

2. The Architect, responsible Engineer, and Owner's Testing Agency will be present and shall be notified by the Contractor at least 5 days prior to the scheduled date of each such conference. Representatives from the Owner's Testing Agency shall include the specific individuals who will be performing the testing and inspection as well as the Project Manager for the Testing Agency.
3. Reporting: Minutes of each conference shall be recorded by the Contractor and shall be distributed to each party in attendance within 5 days of the meeting. One copy of these minutes shall also be transmitted to the Owner's representative for information.
4. Records: Contractor shall maintain correct records on an appropriate form for all inspections and tests performed, instructions received from the Architect, responsible Engineer or Testing Agency, and actions taken as a result of those instructions. These records shall include evidence that the required inspections or tests have been performed (including type and number of inspections or tests, nature of defects, causes for rejection, etc.), proposed or directed remedial action and corrective action taken. Contractor shall document inspections and tests as required by each section of the Specifications. Contractor shall provide updated daily report records to the Architect not less than biweekly.

C. Preconstruction Conference: Schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than 15 days after execution of the Agreement.

1. Attendees: Authorized representatives of Owner Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
2. Agenda: Discuss items of significance that could affect progress, including the following:

    a. Tentative construction schedule.
    b. Critical work sequencing and long-lead items.
    c. Designation of key personnel and their duties.
    d. Procedures for processing field decisions and Change Orders.
    e. Procedures for RFIs.
    f. Procedures for testing and inspecting.
    g. Procedures for processing Applications for Payment.

h. Distribution of the Contract Documents.
i. Submittal procedures.
j. Preparation of record documents.
k. Work restrictions.
l. Working hours.
m. Responsibility for temporary facilities and controls.
n. Procedures for moisture and mold control.
o. Procedures for disruptions and shutdowns.
p. Parking availability.
q. Office, work, and storage areas.
r. Equipment deliveries and priorities.
s. First aid.
t. Security.
u. Progress cleaning.

3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.

D. Pre-installation Conferences: Conduct a pre-installation conference at Project site before each construction activity that requires coordination with other construction.

1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Architect of scheduled meeting dates.
2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:

a. Contract Documents.
b. Options.
c. Related RFIs.
d. Related Change Orders.
e. Purchases.
f. Deliveries.
g. Submittals.
h. Review of mockups.
i. Possible conflicts.
j. Compatibility problems.
k. Time schedules.
l. Weather limitations.
m. Manufacturer's written instructions.
n. Warranty requirements.
o. Compatibility of materials.
p. Acceptability of substrates.
q. Temporary facilities and controls.
r. Space and access limitations.
s. Regulations of authorities having jurisdiction.
t. Testing and inspecting requirements.
u. Installation procedures.
v. Coordination with other work.
w. Required performance results.
x. Protection of adjacent work.
y. Protection of construction and personnel.
z. Review the following prior to each construction activity:

1) Respective specification Section.

2) Submittals, product data, and shop drawings.
3) Manufacturer’s recommendations, requirements, and instructions.
4) Photographs and other documentation that pertains to the warranty of the product.
5) Samples of the product or material.

3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
4. Reporting: Distribute minutes of the meeting to each party present and to other parties requiring information.
5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.

E. Project Closeout Conference: Schedule and conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than 90 days prior to the scheduled date of Substantial Completion.

1. Conduct the conference to review requirements and responsibilities related to Project closeout.
2. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the meeting. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Discuss items of significance that could affect or delay Project closeout, including the following:

a. Preparation of record documents.
b. Procedures required prior to inspection for Substantial Completion and for final inspection for acceptance.
c. Submittal of written warranties.
d. Requirements for delivery of material samples, attic stock, and spare parts.
e. Preparation of Contractor's punch list.
f. Procedures for processing Applications for Payment at Substantial Completion and for final payment.
g. Submittal procedures.
h. Coordination of separate contracts.
i. Owner's partial occupancy requirements.
j. Installation of Owner's furniture, fixtures, and equipment.
k. Responsibility for removing temporary facilities and controls.

4. Minutes: Entity conducting meeting will record and distribute meeting minutes.

F. Progress Meetings: Conduct progress meetings at weekly intervals.

1. Attendees: In addition to representatives of Owner and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
4. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.

5. Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

G. Coordination Meetings: Conduct Project coordination meetings at regular intervals. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and pre-installation conferences.

1. Reporting: Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100

SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:

1. Contractor's construction schedule.
2. Construction schedule updating reports.
3. Daily construction reports.
4. Site condition reports.

1.2 DEFINITIONS

A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.

1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
2. Predecessor Activity: An activity that precedes another activity in the network.
3. Successor Activity: An activity that follows another activity in the network.

B. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of Project.

C. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.

D. Float: The measure of leeway in starting and completing an activity.

1.3 INFORMATIONAL SUBMITTALS

A. Qualification Data: For firms and persons specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and Owner, and other information specified.

B. Format for Submittals: Submit required submittals in the following format:

1. Six paper copies.

C. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.

1. Submit a working electronic copy of schedule and three printed copies, using software indicated, and labeled to comply with requirements for submittals. Include type of schedule (initial or updated) and date on label.

D. Construction Schedule Updating Reports: Submit with Applications for Payment.

E. Daily Construction Reports: Submit at weekly intervals.

F. Site Condition Reports: Submit at time of discovery of differing conditions.

1. Submit two copies to Architect and one copy to UA PM.

1.4 QUALITY ASSURANCE

A. Scheduling Consultant Qualifications: An experienced specialist in CPM scheduling and reporting, with capability of producing CPM reports and diagrams within 24 hours of Architect's request.

B. Prescheduling Conference: Conduct conference at Project site to comply with requirements in Section 013100 "Project Management and Coordination." Review methods and procedures related to the preliminary construction schedule and Contractor's construction schedule, including, but not limited to, the following:
1. Review software limitations and content and format for reports.
2. Verify availability of qualified personnel needed to develop and update schedule.
3. Discuss constraints, including work stages, area separations, interim milestones, and partial Owner occupancy.
4. Review schedule for work of Owner's separate contracts.
5. Review submittal requirements and procedures.
6. Review time required for review of submittals and resubmittals.
7. Review requirements for tests and inspections by independent testing and inspecting agencies.
8. Review time required for Project closeout and Owner startup procedures.
9. Review and finalize list of construction activities to be included in schedule.
10. Review procedures for updating schedule.

1.5 COORDINATION

A. Coordinate Contractor's construction schedule with the schedule of values, submittal schedule, progress reports, payment requests, and other required schedules and reports.

1. Secure time commitments for performing critical elements of the Work from entities involved.
2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 – PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

A. Procedures: Comply with procedures contained in AGC's "Construction Planning & Scheduling."

B. Time Frame: Extend schedule from date established for the Notice to Proceed to date of final completion.

1. Contract completion date can be changed, at the Awarding Authority’s discretion, by submission of a schedule that shows an early completion date, as allowed by the General Conditions to the Contract.

C. Activities: Treat each story or separate area as a separate numbered activity for each main element of the Work. Comply with the following:

1. Activity Duration: Define activities so no activity is longer than 15 days, unless specifically allowed by Architect and Owner.
2. Procurement Activities: Include procurement process activities for long lead items and major items, requiring a cycle of more than 60 days, as separate activities in schedule. Procurement cycle activities include, but are not limited to, submittals, approvals, purchasing, fabrication, and delivery.
3. Submittal Review Time: Include review and resubmittal times indicated in Section 013300 "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's construction schedule with submittal schedule.
4. Startup and Testing Time: Include no fewer than 7 days for startup and testing.
5. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.
6. Punch List and Final Completion: Include not more than 30 days for completion of punch list items and final completion.

D. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.

1. Work under More Than One Contract: Include a separate activity for each contract.
2. Work by Owner: Include a separate activity for each portion of the Work performed by Owner.
3. Work Restrictions: Show the effect of the following items on the schedule:

    a. Coordination with existing construction.

4. Work Stages: Indicate important stages of construction for each major portion of the Work, including, but not limited to, the following:

    a. Subcontract awards.
    b. Submittals.
    c. Purchases.
    d. Mockups.
    e. Fabrication.
    f. Sample testing.
    g. Deliveries.
    h. Installation.
    i. Tests and inspections.
    j. Adjusting.
    k. Curing.

5. Construction Areas: Identify each major area of construction for each major portion of the Work. Indicate where each construction activity within a major area must be sequenced or integrated with other construction activities to provide for the following:

    a. Structural completion.
    b. Completion of mechanical installation.
    c. Completion of electrical installation.
    d. Substantial Completion.

E. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and final completion.

F. Resource / Staffing: Incorporate resource loading into the schedule to indicate required staffing levels for each activity. Show aggregate manpower requirements on a daily or weekly basis.

G. Cost Correlation: Superimpose a cost correlation timeline, indicating planned and actual costs. On the line, show planned and actual dollar volume of the Work performed as of planned and actual dates used for preparation of payment requests.

1. See Section 012900 "Payment Procedures" for cost reporting and payment procedures.

H. Upcoming Work Summary: Prepare summary report indicating activities scheduled to occur or commence prior to submittal of next schedule update. Summarize the following issues:

1. Unresolved issues.
2. Unanswered Requests for Information.
3. Rejected or unreturned submittals.
4. Notations on returned submittals.

I. Recovery Schedule: When periodic update indicates the Work is 14 or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule.

J. Computer Scheduling Software: Prepare schedules using current version of a program that has been developed specifically to manage construction schedules.

2.2 CONTRACTOR'S CONSTRUCTION SCHEDULE (CPM SCHEDULE)

A. CPM Schedule: Prepare Contractor's construction schedule using a computerized, cost- and resource-loaded, time-scaled CPM network analysis diagram for the Work.

1. Submit schedule to the Architect and Awarding Authority in the time frame stipulated in the General Conditions to the Contract.
2. Establish procedures for monitoring and updating CPM schedule and for reporting progress. Coordinate procedures with progress meetings and payment request dates.
3. Failure to include any work item required for performance of this Contract shall not excuse Contractor from completing all work within applicable completion dates, regardless of Architect's or Owner’s approval of the schedule.

B. CPM Schedule Preparation: Prepare a list of all activities required to complete the Work. Using the preliminary network diagram, prepare a skeleton network to identify probable official paths.

1. Activities: Indicate the estimated time duration, sequence requirements, and relationship of each activity in relation to other activities. Include estimated time frames for the following activities:

a. Preparation and processing of submittals.
b. Mobilization and demobilization.
c. Purchase of materials.
d. Delivery.
e. Fabrication.
f. Utility interruptions.

1) Power outages or any utility shut downs must be given advance notice of 30 days and must be included in the CPM schedule.

g. Installation.
h. Architect and Owner Inspections.
i. Work by Owner that may affect or be affected by Contractor's activities.
j. Testing.
k. Punch list and final completion.
l. Activities occurring following final completion.

2. Critical Path Activities: Identify critical path activities, including those for interim completion dates. Scheduled start and completion dates shall be consistent with Contract milestone dates.
3. Processing: Process data to produce output data on a computer-drawn, time-scaled network. Revise data, reorganize activity sequences, and reproduce as often as necessary to produce the CPM schedule within the limitations of the Contract Time.
4. Format: Mark the critical path. Locate the critical path near center of network; locate paths with most float near the edges.

C. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis to demonstrate the effect of the proposed change on the overall project schedule.

D. Schedule Updating: Concurrent with making revisions to schedule, prepare tabulated reports showing the following:

1. Identification of activities that have changed.
2. Changes in early and late start dates.
3. Changes in early and late finish dates.
4. Changes in activity durations in workdays.
5. Changes in the critical path.
6. Changes in total float or slack time.
7. Changes in cost-loading or resource-loading.
8. Changes in the Contract Time.

2.3 REPORTS

A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:

1. List of subcontractors at Project site.
2. List of separate contractors at Project site.
3. Approximate count of personnel at Project site.
4. Equipment at Project site.
5. Material deliveries.
6. High and low temperatures and general weather conditions.
7. Accidents.
8. Meetings and significant decisions.
9. Unusual events.
10. Stoppages, delays, shortages, and losses.
11. Meter readings and similar recordings.
12. Emergency procedures.
13. Orders and requests of authorities having jurisdiction.
14. Change Orders received and implemented.
15. Construction Change Directives received and implemented.
16. Services connected and disconnected.
17. Equipment or system tests and startups.
18. Partial completions and occupancies.

19. Substantial Completions authorized.

B. Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

PART 3 – EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

A. Scheduling Consultant: Engage a consultant to provide planning, evaluation, and reporting using CPM scheduling.

1. In-House Option: Awarding Authority may waive the requirement to retain a consultant if Contractor employs skilled personnel with experience in CPM scheduling and reporting techniques. Submit qualifications.
2. Meetings: Scheduling consultant shall attend all meetings related to Project progress, alleged delays, and time impact.

B. Float: Float is a shared resource, available to both parties as needed. The Contractor shall not sequester shared float through such strategies as (a) extending activity duration estimates to consume available float, (b) using preferential logic, or (c) using extensive crew / resource sequencing, constraints, unnecessary milestones, leads or lags on logic ties, and hammock type activities. Since Float within the Construction Schedule is jointly owned, no time extensions will be granted nor delay damages paid until a delay occurs which extends the work beyond the contract completion date. Since float within the Construction Schedule is jointly owned, it is acknowledged that Trustees-caused delays on the project may be offset by Trustees-caused time savings (i.e., critical path submittals returned in less time than allowed by the contract, approval of substitution requests and credit changes which result in a savings of time to the Contractor, etc.). In such an event, the Contractor shall not be entitled to receive a time extension or delay damages until all Trustee-caused time savings are exceeded and the contract completion date is also exceeded.

C. Weather Delays: Weather delays will be calculated as days lost for events in excess of the NOAA 30 year average for Tuscaloosa, AL (1971 – 2010). Weather delays will not be granted for rain events less than 0.1 inches. Weather delays will not be granted for activities that are not shown to be on the critical path of the schedule at the time of the event.

D. Contractor's Construction Schedule Updating: At two-week intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.

1. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
2. As the Work progresses, indicate final completion percentage for each activity.

E. Distribution: Distribute copies of approved schedule to Architect, Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.

1. Post copies in Project meeting rooms and temporary field offices.
2. When revisions are made, distribute updated schedules to the same parties and post

in the same locations.

3. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

F. Construction Schedule Software: Prepare using SureTrak software, except as noted below.

1. Contractor shall provide Owner with a licensed copy of alternate proprietary software.

END OF SECTION 013200

SECTION 013233 - PHOTOGRAPHIC DOCUMENTATION

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for the following:

1. Preconstruction photographs.
2. Periodic construction photographs.

B. Related Requirements:

1. Section 017700 "Closeout Procedures" for submitting photographic documentation as Project Record Documents at Project closeout.

1.2 INFORMATIONAL SUBMITTALS

A. Key Plan: Submit key plan of building with notation of vantage points marked for location and direction of each photograph. Indicate elevation or story of construction. Include same information as corresponding photographic documentation.

B. Digital Photographs: Submit image files monthly with each Application for Payment.

1. Identification: Provide the following information with each image description in file metadata tag:

a. Name of Project.
b. Date photograph was taken.
c. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

C. Construction Photographs:

1. Format: 8-by-10-inch smooth-surface matte prints on single-weight, commercial-grade photographic paper; enclosed back to back in clear plastic sleeves that are punched for standard three-ring binder.
2. Identification: On back of each print, provide an applied label or rubber-stamped impression with the following information:

a. Name of Project.
b. Name of Contractor.
c. Date photograph was taken if not date stamped by camera.
d. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.

3. Digital Images: Submit a complete set of digital image electronic files as a Project Record Document on CD-ROM. Identify electronic media with date photographs were taken.

PART 2 – PRODUCTS

2.1 PHOTOGRAPHIC MEDIA

A. Digital Images: Provide images in JPG format, with minimum size of 8 megapixels.

PART 3 – EXECUTION

3.1 CONSTRUCTION PHOTOGRAPHS

A. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.

1. Maintain key plan with each set of construction photographs that identifies each photographic location.

B. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.

1. Date and Time: Include date and time in file name for each image.
2. Field Office Images: Maintain one set of images accessible in the field office at Project site, available at all times for reference. Identify images in the same manner as those submitted to Architect.

C. Preconstruction Photographs: Before commencement of demolition, take photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points, as directed by Architect.

D. Periodic Construction Photographs: Take 12 photographs weekly, with timing each month adjusted to coincide with the cutoff date associated with each Application for Payment. Select vantage points to show status of construction and progress since last photographs were taken.

E. Final Completion Construction Photographs: Take 8 color photographs after date of Substantial Completion for submission as Project Record Documents. Architect will inform photographer of desired vantage points.

END OF SECTION 013233

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

B. Related Requirements:

1. Section 012900 "Payment Procedures" for submitting Applications for Payment and the schedule of values.
2. Section 013200 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
3. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.2 DEFINITIONS

A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."

B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."

1.3 ACTION SUBMITTALS

A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
2. Initial Submittal: Submit concurrently with startup construction schedule. Include submittals required during the first 60 days of construction. List those submittals required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.

a. Develop initial submittal schedule and coordinate with the Architect and his subconsultants.
b. Initial submittal schedule shall be approved by all parties.
c. The Architect and the Owner will endeavor to work with the Contractor to expedite critical path submittals, which must be identified on the submittal schedule.
d. Include time required for Architect, Owner, and consultant review, and re-review if necessary.

3. Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.

    a. Submit revised submittal schedule to reflect changes in current status and timing for submittals.
    b. Architect, Owner, and consultants to review and approve final submittal schedule.

        1) No Contractor claims for delay will be accepted for submittals that are not per the approved submittal schedule.

4. Format: Arrange the following information in a tabular format:

    a. Scheduled date for first submittal.
    b. Specification Section number and title.
    c. Submittal category: Action; informational.
    d. Name of subcontractor.
    e. Description of the Work covered.
    f. Scheduled date for Architect's final release or approval.
    g. Scheduled dates for purchasing.
    h. Scheduled dates for installation.

1.4 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

A. Architect's Digital Data Files: Electronic digital data files of the Contract Drawings will be provided by Architect for Contractor's use in preparing submittals, upon request.

1. Architect will furnish Contractor one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings.

    a. Architect makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
    b. Contractor shall execute a data licensing agreement in the form of Agreement form acceptable to Owner and Architect.
    c. The following digital data files will be furnished for each appropriate discipline:
        1) Floor plans.
        2) Reflected ceiling plans.

B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.

    a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Initial Review: Architect will review submittals with reasonable promptness. Allow 10 working days in the construction schedule for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
2. Intermediate Review: If intermediate submittal is necessary, process it in same Manner as initial submittal.
3. Resubmittal Review: Allow 10 days for review of each resubmittal.
4. Concurrent Consultant Review: Where the approved submittal schedule indicates That submittals may be transmitted simultaneously to Architect and to Architect's consultants, allow 15 working days for review of each submittal. Submittal will be returned to Architect before being returned to Contractor.

5.Consecutive Consultant Review: For submittals transmitted to the Architect, but Requiring consecutive review by Architect and Architect’s consultants, allow 20 working days for review of each submittal. Submittal will be returned to Architect before being returned to Contractor.

6.Owner Review: All submittals will be reviewed by the Owner after completion of review by the Architect. Contractor must allow 5 working days for Owner review in addition to the Architect/Consultant review periods.

a. The Architect will not return submittals to the Contractor prior to completion of Owner review.
b. The Owner will review submittals concurrently with the Architect where required to expedite critical path submittals. Such concurrent reviews must be identified in advance on the submittal schedule and approved by the Owner. The Contractor must submit a copy of the submittal directly to the Owner, in addition to the copies sent to the Architect.

D.The Architect will review the submittals on shop drawings, product data and samples and one resubmittal.

1. For submittals in excess of the one resubmittal, the Contractor shall reimburse the Owner, for additional services required of the Architect, and the Architect's consultants by these additional resubmittals.
3. No additional time will be allowed the Contractor for delays caused by excess number of resubmittals.

E. Paper Submittals: Place a permanent label or title block on each submittal item for identification.

1. Indicate name of firm or entity that prepared each submittal on label or title block.
2. Provide a space approximately 6 by 8 inches on label or beside title block to record Contractor's review and approval markings and action taken by Architect.
3. Include the following information for processing and recording action taken:

a. Project name.
b. Date.
c. Name of Architect.
d. Name of Contractor.
e. Name of subcontractor.

f. Name of supplier.
g. Name of manufacturer.
h. Submittal number or other unique identifier, including revision identifier.

1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).

i. Number and title of appropriate Specification Section.
j. Drawing number and detail references, as appropriate.
k. Location(s) where product is to be installed, as appropriate.
l. Other necessary identification.

4. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect will discard submittals received from sources other than Contractor.

F. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:

1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
2. Name file with submittal number or other unique identifier, including revision identifier.

a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-06100.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-06100.01.A).

3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
4. Transmittal Form for Electronic Submittals: Use software-generated form from Electronic project management software acceptable to Owner**,** containing the following information:

a. Project name.
b. Date.
c. Name and address of Architect.
d. Name of Contractor.
e. Name of firm or entity that prepared submittal.
f. Names of subcontractor, manufacturer, and supplier.
g. Category and type of submittal.
h. Submittal purpose and description.
i. Specification Section number and title.
j. Specification paragraph number or drawing designation and generic name for each of multiple items.
k. Drawing number and detail references, as appropriate.
l. Location(s) where product is to be installed, as appropriate.
m. Related physical samples submitted directly.
n. Indication of full or partial submittal.
o. Transmittal number, numbered consecutively.
p. Submittal and transmittal distribution record.
q. Other necessary identification.
r. Remarks.

5. Metadata: Include the following information as keywords in the electronic submittal file metadata:

    a. Project name.
    b. Number and title of appropriate Specification Section.
    c. Manufacturer name.
    d. Product name.

G. Options: Identify options requiring selection by Architect.

H. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.

I. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.

1. Note date and content of previous submittal.
2. Note date and content of revision in label or title block and clearly indicate extent of revision.
3. Resubmit submittals until they are marked with approval notation from Architect's Action stamp.

J. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

K. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

PART 2 – PRODUCTS

2.1 SUBMITTAL PROCEDURES

A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.

1. Submit electronic submittals via email as PDF electronic files.

    a. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.

2. Action Submittals: Submit six paper copies of each submittal unless otherwise indicated.
   Architect will return five copies.
3. Informational Submittals: Submit one paper copy of each submittal unless otherwise indicated. Architect will not return copies.
4. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.

a. Provide a notarized statement on original paper copy certificates and certifications where indicated.

B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

1. If information must be specially prepared for submittal because standard published Data are not suitable for use, submit as Shop Drawings, not as Product Data.
2. Mark each copy of each submittal to show which products and options are applicable.
3. Include the following information, as applicable:

a. Manufacturer's catalog cuts.
b. Manufacturer's product specifications.
c. Standard color charts.
d. Statement of compliance with specified referenced standards.
e. Testing by recognized testing agency.
f. Application of testing agency labels and seals.
g. Notation of coordination requirements.
h. Availability and delivery time information.

4 For equipment, include the following in addition to the above, as applicable:

a. Wiring diagrams showing factory-installed wiring.
b. Printed performance curves.
c. Operational range diagrams.
d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.

5. Submit Product Data before or concurrent with Samples.
6. Submit Product Data in the following format:

a. Six paper copies of Product Data unless otherwise indicated. Architect will return five copies.

C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on Architect's digital data drawing files is otherwise permitted.

1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:

a. Identification of products.
b. Schedules.
c. Compliance with specified standards.
d. Notation of coordination requirements.
e. Notation of dimensions established by field measurement.
f. Relationship and attachment to adjoining construction clearly indicated.
g. Seal and signature of professional engineer if specified.

2 Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 30 by 40 inches.
3. Submit Shop Drawings in the following format:

a. PDF electronic file.
b. Opaque (bond) copies as follows:

1) For submittals in 8-1/2 by 11 inch format or 11 by 17 inch format, submit five copies of each submittal (six copies if consultant review is required). Consultant will retain one copy with markups, Architect will retain two copies with markups, and remainder will be returned.
2) For submittals in larger formats, submit two copies of each submittal (three copies if consultant review is required). Consultant will retain one copy with markups, Architect will retain two copies with markups, and an electronic scanned copy (in PDF format) will be transmitted to the Contractor.

D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.

1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
2. Identification: Attach label on unexposed side of Samples that includes the following:

a. Generic description of Sample.
b. Product name and name of manufacturer.
c. Sample source.
d. Number and title of applicable Specification Section.

3. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.

a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.

4. Samples for Initial Selection: Submit manufacturer's color charts consisting of units Or sections of units showing the full range of colors, textures, and patterns available.

a. Number of Samples: Submit one full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
b. Where color numbers and names conflict, secure instructions from Architect before proceeding.
c. Unless the precise color and pattern is specified, wherever a choice exists, submit accurate color and all items well in advance of the need for the first selection (not later than 30 days after award).
d. With very minor exceptions no color selections will be made until samples for all items requiring selection have been submitted.
e. The Architect’s color schedule will be prepared for color only; it will not justify deviations from Contract requirements (such as changing of finish material, type of paint, etc.) which must be made by change order.

5. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following:

partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned. Mark up and retain one returned Sample set as a project record sample.

E. Contractor's Construction Schedule: Comply with requirements specified in Section 013200 "Construction Progress Documentation."

F. Application for Payment and Schedule of Values: Comply with requirements specified in Section 012900 "Payment Procedures."

G. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 014000 "Quality Requirements."

H. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."

I. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.

J. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.

K. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.

L. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

M. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.

N. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.

O. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.

P. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

Q. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:

1. Name of evaluation organization.
2. Date of evaluation.
3. Time period when report is in effect.
4. Product and manufacturers' names.
5. Description of product.
6. Test procedures and results.
7. Limitations of use.

R. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.

S. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.

T. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

U. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

V. Manufacturer's Instructions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer.

W. Insurance Certificates and Bonds: Prepare written information indicating current status of insurance or bonding coverage. Include name of entity covered by insurance or bond, limits of coverage, amounts of deductibles, if any, and term of the coverage.

1. Refer to the Supplementary General Conditions.

X. Brand Names: Submit for review a list of brand name materials proposed for use before any work under that Section is begun.

2.2 DELEGATED-DESIGN SERVICES

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.

B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit three paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 – EXECUTION

3.1 CONTRACTOR'S REVIEW

A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.

B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."

C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

A. General: Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.

B. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action.

1. Architect’s review is for compliance with design, and will assume no responsibility for dimensions, quantities, or execution procedures.

C. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.

D. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.

1. Submit data on all related items simultaneously so as to facilitate logical review of all items in that Section.
2. Review of a separate item will not constitute review of an assembly in which the item functions.

E. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

F. Submittals not required by the Contract Documents may be returned by the Architect without action.

END OF SECTION 013300

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for quality assurance and quality control, including special inspections and structural testing performed during the progress of the work.

1. Structural testing and special inspections to comply with IBC Chapter 17, Structural Tests and Special Inspections.

B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.

1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
2. Specified tests, inspections, and related actions do not limit Contractor's other quality assurance and -control procedures that facilitate compliance with the Contract Document requirements.
3. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

C. The Owner will engage one or more qualified special inspectors and / or testing agencies to conduct structural tests and special inspections specified in this Section and other Sections in the Project Manual.

D. Related Requirements:

1. Section 013100 "Project Management and Coordination" for quality control preconstruction conference and pre-installation conference requirements.
2. Section 052100 “Steel Joist Framing.”
3. Section 053100 “Steel Decking.”

1.2 DEFINITIONS

A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.

B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect.

C. Mockups: Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under Sample submittals; to demonstrate aesthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances. Mockups are not Samples. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.

D. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.

E. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.

F. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g. plant, mill, factory, or shop.

G. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

H. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

I. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.

1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).

J. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

K. Structural Observation: Visual observation of the structural system by a representative of the registered design professional for the structure for general conformance to the approved construction documents. Structural observations are not considered part of the special inspections and structural testing and do not replace inspections and testing by the special inspector or testing agency.

L. Special Inspector: A qualified person who demonstrating competence, to the satisfaction of the code enforcement official and registered design professional in responsible charge, for inspection of the particular type of construction or operation requiring special inspection. The special inspector shall be a licensed professional engineer or engineering intern or a qualified representative from the testing agency.

M. Special Inspection, Continuous: The full-time observation of work requiring special inspection by an approved special inspector who is present in the area where the work is being performed.

N. Special Inspection, Periodic: The part-time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work has been or is being performed and at the completion of the work.

1.3 CONFLICTING REQUIREMENTS

A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.

B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

C. The special inspector's reports and testing agency's results shall have precedence over reports and test results provided by the Contractor.

D. Where a conflict exists between the contract documents and approved shop drawings / submittal data, the contract documents shall govern unless the shop drawings / submittal data are more restrictive. All conflicts shall be brought to the attention of the Architect.

1.4 INFORMATIONAL SUBMITTALS

A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.

1. Submit QAQC Program format for Owner's approval 10 days from notice to proceed.

B. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

C. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
1. Specification Section number and title.
2. Entity responsible for performing tests and inspections.
3. Description of test and inspection.
4. Identification of applicable standards.
5. Identification of test and inspection methods.
6. Number of tests and inspections required.
7. Time schedule or time span for tests and inspections.
8. Requirements for obtaining samples.
9. Unique characteristics of each quality-control service.

D. Final Report of Special Inspections. Submitted by each agent listed in the Schedule of Structural Testing and Special Inspections.

1.5 CONTRACTOR'S QUALITY-CONTROL PLAN

A. Quality-Control Plan, General: Submit quality-control plan within 10 days of Notice to Proceed, and not less than five days prior to preconstruction conference. Submit in format acceptable to Architect. Identify personnel, procedures, controls, instructions, tests, records, and forms to be used to carry out Contractor's quality-assurance and quality-control responsibilities. Coordinate with Contractor's construction schedule.

B. Quality-Control Personnel Qualifications: Engage qualified full-time personnel trained and experienced in managing and executing quality-assurance and quality-control procedures similar in nature and extent to those required for Project.

1. Project quality-control manager may also serve as Project superintendent.

C. Submittal Procedure: Describe procedures for ensuring compliance with requirements through review and management of submittal process. Indicate qualifications of personnel responsible for submittal review.

D. Testing and Inspection: In quality-control plan, include a comprehensive schedule of Work requiring testing or inspection, including the following:

1. Contractor-performed tests and inspections including subcontractor-performed tests and inspections. Include required tests and inspections and Contractor-elected tests and inspections.
2. Special inspections required by authorities having jurisdiction and indicated on the "Statement of Special Inspections."
3. Owner-performed tests and inspections indicated in the Contract Documents.

E. Continuous Inspection of Workmanship: Describe process for continuous inspection during construction to identify and correct deficiencies in workmanship in addition to testing and inspection specified. Indicate types of corrective actions to be required to bring work into compliance with standards of workmanship established by Contract requirements and approved mockups.

F. Monitoring and Documentation: Maintain testing and inspection reports including log of approved and rejected results. Include work Architect has indicated as nonconforming or defective. Indicate corrective actions taken to bring nonconforming work into compliance with requirements. Comply with requirements of authorities having jurisdiction.

1.6 REPORTS AND DOCUMENTS

A. Special inspectors shall keep and distribute records of inspections. The special inspector shall furnish inspection reports to the building official, and to the registered design professional in responsible charge, Contractor, Architect, and Owner.

1. Reports shall indicate that work inspected was done in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work.
2. A final report documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the permit applicant and the building official prior to the start of work.

B. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:

1. Date of issue.
2. Project title and number.
3. Name, address, and telephone number of testing agency.
4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of the Work and test and inspection method.
7. Identification of product and Specification Section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Name and signature of Contractor’s representative who was notified of work, material, and / or products that do not meet the construction documents requirements.

11. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
12. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
13. Name and signature of laboratory inspector.
14. Recommendations on retesting and re-inspecting.

C. Reports and tests shall be submitted within one week of inspection or test and shall be sent in a timely manner so as not to affect the construction schedule.

D. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:

1. Name, address, and telephone number of representative making report.
2. Statement on condition of substrates and their acceptability for installation of product.
3. Statement that products at Project site comply with requirements.
4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.

5 Results of operational and other tests and a statement of whether observed performance complies with requirements.
6. Statement whether conditions, products, and installation will affect warranty.
7. Other required items indicated in individual Specification Sections.

E. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.7 QUALITY ASSURANCE

A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.

B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.

E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.

F. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.

1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.

G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.

1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
3. In addition to these requirements, local jurisdiction may have additional requirements. It is the responsibility of the testing and inspection agencies to meet local requirements and comply with local procedures.

H. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

I. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

J. Preconstruction Testing: Where testing agency is indicated to perform preconstruction testing for compliance with specified requirements for performance and test methods, comply with the following:

1. Contractor responsibilities include the following:

a. Provide test specimens representative of proposed products and construction.
b. Submit specimens in a timely manner with sufficient time for testing and analyzing results to prevent delaying the Work.
c. When testing is complete, remove test specimens, assemblies, and mockups; do not reuse products on Project.

2. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

K. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:

1. Build mockups in location and of size indicated or, if not indicated, as directed by Architect.
2. Notify Architect seven days in advance of dates and times when mockups will be constructed.
3. Demonstrate the proposed range of aesthetic effects and workmanship.
4. Obtain Architect's approval of mockups before starting work, fabrication, or construction.

a. Allow seven days for initial review and each re-review of each mockup.

5. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
6. Demolish and remove mockups when directed unless otherwise indicated.

1.8 QUALITY CONTROL

A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.

1. Owner will furnish Contractor with names, addresses, and telephone numbers of Testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
2. Costs for retesting and re-inspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.

B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.

1. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.

a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.

2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
4. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

C. Coordinate the inspection and testing services with the progress of the work. Provide sufficient notice to allow proper scheduling of all personnel. Provide safe access for performing inspection and on-site testing.

D. Submit schedules to the Owner, registered design professionals and testing and inspecting agencies. Schedules will note milestones and durations of time for materials requiring structural tests and special inspections.

E. Pre-Work Quality Control Meeting: Schedule a meeting with the awarding authority, Architect, project superintendent, and all major trade superintendents to review the Contractor’s proposed QA/QC system and requirements for compliance.

F. Manufacturer's Field Services: Where indicated, engage a manufacturer's representative to observe and inspect the Work. Manufacturer's representative's services include examination of substrates and conditions, verification of materials, inspection of completed portions of the Work, and submittal of written reports.

G. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in pre-installation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.

H. Retesting/Re-inspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and re-inspecting, for construction that replaced Work that failed to comply with the Contract Documents.

I. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.

1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality Control service through Contractor.
5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
6. Do not perform any duties of Contractor.

J. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:

1. Access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
4. Facilities for storage and field curing of test samples.
5. Delivery of samples to testing agencies.
6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
7. Security and protection for samples and for testing and inspecting equipment at Project site.

K. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.

1. Schedule times for tests, inspections, obtaining samples, and similar activities.

L. Contractor’s Quality Control System: Establish and maintain a system for documenting, monitoring, inspecting, verifying, and testing of the work, including all subcontract work to ensure that all applicable requirements of the contract documents are met. Maintain in the form of a Quality Control Manual and seek approval by the Owner’s Field Coordinator and Project Manager prior to approval of the current Pay Application.

1. Ensure that the quality of workmanship is satisfactory, that the installation meets all manufacturer requirements, that dimensional requirements are met, that defective materials are not used, and that all required protection and laboratory testing procedures are effected.

2. Where specific testing procedures are not stipulated in the contract documents, establish and conduct a test procedure to ensure adherence to the specified quality, and as follows:

   a. Document test procedure by specification Section or by system or element of construction.
   b. Format in a comprehensive and collated manner for easy use and reference. Provide a table of contents.

3. Quality Control System: Review the following:

   a. Pre-installation conference minutes.
   b. Each specification Section.
   c. Submittals, product data, and shop drawings.
   d. Test results.
   e. Manufacturer's recommendations, requirements, and instructions.
   f. Packaging labels, where possible.
   g. Periodic dated photos of work in progress and any other documentation that pertains to the warranty of the material.
   h. Samples.
   i. A list of all equipment including the following information:

      1) Model number.
      2) Serial number.
      3) Description.
      4) Contract document reference.
      5) Filter and belt list for each air handler.

   4. Submit all documentation generated through the Contractor's Quality Control System as part of the closeout documents.

M. Chain of Control: Plan, coordinate, execute, and examine the work to ensure the complete workmanlike and warrantable installation of all materials in a system or element of the construction.

1. Examine the work to ensure that all substrates or contiguous work is installed as required to meet the tolerances and requirements for the correct installation of the work.
   a. Advise the Architect no later than the submittal phase of any discrepancies between the specified tolerances and the manufacturer's requirements.

N. Inspections: Perform initial inspection of each phase of work as soon as representative portion has been completed, and perform follow up inspections as required to ensure that an acceptable quality of work is established and maintained.

1. Coordinate and schedule inspections by the Architect and awarding authority in a timely manner to ensure that all parties can be scheduled so as not to impede the flow of work.

O. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents as a component of Contractor's quality-control plan. Coordinate and submit concurrently with Contractor's construction schedule. Update as the Work progresses.

1. Distribution: Distribute schedule to Owner, Architect, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.9 SPECIAL TESTS AND INSPECTIONS

A. Special Tests and Inspections: Owner will engage a qualified testing agency to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner, and as follows:

1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviews the completeness and adequacy of those procedures to perform the Work.
2. Notifying Architect and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect with copy to Contractor and to authorities having jurisdiction.
4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
6. Retesting and re-inspecting corrected work.

PART 2 - PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 STRUCTURAL OBSERVATIONS

A. Structural observations may be made periodically as determined by the registered design professional in responsible charge.

3.2 TEST AND INSPECTION LOG

A. Prepare a record of tests and inspections. Include the following:

1. Date test or inspection was conducted.
2. Description of the Work tested or inspected.
3. Date test or inspection results were transmitted to Architect.
4. Identification of testing agency or special inspector conducting test or inspection.

B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.

C. Schedule of Non-Compliant Work: Each agent shall maintain a log of work that does not meet the requirements of the contract documents. Include reference to original inspection / test report and subsequent dates of re-inspection / retesting.

1. Schedule of Non-Compliant Work shall be updated daily and submitted at monthly intervals.

3.3 REPAIR AND PROTECTION

A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.

1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."

2.Engage an engineer or architect to prepare repair and / or replacement procedures.

a. Engineer or architect shall be registered in the state in which the project is located. Engineer shall be acceptable to the registered design professional in responsible charge, code enforcement official, and Owner.

3. Submit procedures for review and acceptance by the registered design professional in responsible charge, code enforcement official, and Owner before proceeding with corrective action.

B. Protect construction exposed by or for quality-control service activities.

C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

D. Contractor shall be responsible for costs for the following:

1. Re-testing and re-inspection of materials, work, and / or products that do not meet the requirements of the contract documents and shop drawings / submittal data.
2. Review of proposed repair and / or replacement procedures by the registered design professional in responsible charge and the inspectors and testing agencies.
3. Repair or replacement of work that does not meet the requirements of the construction documents.

3.4 SCHEDULE OF REQUIRED SPECIAL INSPECTIONS

A. Testing and inspection shall be in accordance with the technical specifications and/or the notes on the drawings.

END OF SECTION 014000

SECTION 014200 – REFERENCES

PART 1 – GENERAL

1.1 DEFINITIONS

A. General: Basic Contract definitions are included in the Conditions of the Contract.

B. "Approved": When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.

C. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."

D. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."

E. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.

F. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.

G. "Install": Operations at Project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.

H. "Provide": Furnish and install, complete and ready for the intended use.

I. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

J. Architect, Engineer, Architect/Engineer: Wherever the terms "Architect", "Engineer", or "Architect/Engineer" are used, it shall refer to the design professional that holds the prime contract with the Owner for the applicable portion of the work being described. In general, these terms are used interchangeably in the context that the design professional is to be consulted at various times for submittal reviews, approvals, pre-construction reviews, work progress reviews, and other functions as defined in the contract documents.

1.2 INDUSTRY STANDARDS

A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.

C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.

1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.

1.3 ABBREVIATIONS AND ACRONYMS

A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Gale's "Encyclopedia of Associations: National Organizations of the U.S." or in Columbia Books' "National Trade & Professional Associations of the United States."

B. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list.

AABC Associated Air Balance Council
AAMA American Architectural Manufacturers Association
AASHTO American Association of State Highway and Transportation Officials
AATCC American Association of Textile Chemists and Colorists
ABAA Air Barrier Association of America
ABMA American Bearing Manufacturers Association
ACI American Concrete Institute (Formerly: ACI International)
ACPA American Concrete Pipe Association
AEIC Association of Edison Illuminating Companies, Inc. (The)
AF&PA American Forest & Paper Association
AGA American Gas Association
AHAM Association of Home Appliance Manufacturers
AHRI Air-Conditioning, Heating, and Refrigeration Institute (The)
AI Asphalt Institute
AIA American Institute of Architects (The)
AISC American Institute of Steel Construction
AISI American Iron and Steel Institute
AITC American Institute of Timber Construction
AMCA Air Movement and Control Association International, Inc.
ANSI American National Standards Institute
AOSA Association of Official Seed Analysts, Inc.
APA APA - The Engineered Wood Association
APA Architectural Precast Association
API American Petroleum Institute
ARI Air-Conditioning & Refrigeration Institute (See AHRI)
ARI American Refrigeration Institute (See AHRI)
ARMA Asphalt Roofing Manufacturers Association
ASCE American Society of Civil Engineers
ASCE/SEI American Society of Civil Engineers/Structural Engineering Institute (See ASCE)
ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASME ASME International (American Society of Mechanical Engineers)
ASSE American Society of Safety Engineers (The)
ASSE American Society of Sanitary Engineering
ASTM ASTM International (American Society for Testing and Materials International)
ATIS Alliance for Telecommunications Industry Solutions
AWEA American Wind Energy Association
AWI Architectural Woodwork Institute
AWMAC Architectural Woodwork Manufacturers Association of Canada
AWPA American Wood Protection Association (Formerly: American Wood-Preservers'

Association)
AWS American Welding Society
AWWA American Water Works Association
BHMA Builders Hardware Manufacturers Association
BIA Brick Industry Association (The)
BICSI BICSI, Inc.
BIFMA BIFMA International (Business and Institutional Furniture Manufacturer's Association)
BISSC Baking Industry Sanitation Standards Committee
BOCA BOCA (Building Officials and Code Administrators International Inc.) (See ICC)
BWF Badminton World Federation (Formerly: International Badminton Federation)
CDA Copper Development Association
CEA Canadian Electricity Association
CEA Consumer Electronics Association
CFFA Chemical Fabrics & Film Association, Inc.
CFSEI Cold-Formed Steel Engineers Institute
CGA Compressed Gas Association
CIMA Cellulose Insulation Manufacturers Association
CISCA Ceilings & Interior Systems Construction Association
CISPI Cast Iron Soil Pipe Institute
CLFMI Chain Link Fence Manufacturers Institute
CPA Composite Panel Association
CRI Carpet and Rug Institute (The)
CRRC Cool Roof Rating Council
CRSI Concrete Reinforcing Steel Institute
CSA Canadian Standards Association
CSA CSA International (Formerly: IAS - International Approval Services)
CSI Construction Specifications Institute (The)
CSSB Cedar Shake & Shingle Bureau
CTI Cooling Technology Institute (Formerly: Cooling Tower Institute)
CWC Composite Wood Council (See CPA)
DASMA Door and Access Systems Manufacturers Association
DHI Door and Hardware Institute
ECA Electronic Components Association
ECAMA Electronic Components Assemblies & Materials Association (See ECA)
EIA Electronic Industries Alliance (See TIA)
EIMA EIFS Industry Members Association
EJMA Expansion Joint Manufacturers Association, Inc.
ESD ESD Association (Electrostatic Discharge Association)
ESTA Entertainment Services and Technology Association (See PLASA)
EVO Efficiency Valuation Organization
FIBA Federation Internationale de Basketball (The International Basketball Federation)
FIVB Federation Internationale de Volleyball (The International Volleyball Federation)
FM Approvals FM Approvals LLC
FM Global FM Global (Formerly: FMG - FM Global)
FRSA Florida Roofing, Sheet Metal & Air Conditioning Contractors Association, Inc.
FSA Fluid Sealing Association
FSC Forest Stewardship Council U.S.
GA Gypsum Association
GANA Glass Association of North America
GS Green Seal
HI Hydraulic Institute
HI/GAMA Hydronics Institute/Gas Appliance Manufacturers Association (See AHRI)
HMMA Hollow Metal Manufacturers Association (See NAAMM)
HPVA Hardwood Plywood & Veneer Association
HPW H. P. White Laboratory, Inc.

IAPSC International Association of Professional Security Consultants
IAS International Approval Services (See CSA)
ICBO International Conference of Building Officials (See ICC)
ICC International Code Council
ICEA Insulated Cable Engineers Association, Inc.
ICPA International Cast Polymer Alliance
ICRI International Concrete Repair Institute, Inc.
IEC International Electrotechnical Commission
IEEE Institute of Electrical and Electronics Engineers, Inc. (The)
IES Illuminating Engineering Society (Formerly: Illuminating Engineering Society of North America)
IESNA Illuminating Engineering Society of North America (See IES)
IEST Institute of Environmental Sciences and Technology
IGMA Insulating Glass Manufacturers Alliance
IGSHPA International Ground Source Heat Pump Association
ILI Indiana Limestone Institute of America, Inc.
Intertek Intertek Group (Formerly: ETL SEMCO; Intertek Testing Service NA)
ISA International Society of Automation (The) (Formerly: Instrumentation, Systems, and Automation Society)
ISAS Instrumentation, Systems, and Automation Society (The) (See ISA)
ISFA International Surface Fabricators Association (Formerly: International Solid Surface Fabricators Association)
ISO International Organization for Standardization
ISSFA International Solid Surface Fabricators Association (See ISFA)
ITU International Telecommunication Union
KCMA Kitchen Cabinet Manufacturers Association
LMA Laminating Materials Association (See CPA)
LPI Lightning Protection Institute
MBMA Metal Building Manufacturers Association
MCA Metal Construction Association
MFMA Maple Flooring Manufacturers Association, Inc.
MFMA Metal Framing Manufacturers Association, Inc.
MHIA Material Handling Industry of America
MIA Marble Institute of America
MMPA Moulding & Millwork Producers Association (Formerly: Wood Moulding & Millwork Producers Association)
MPI Master Painters Institute
MSS Manufacturers Standardization Society of The Valve and Fittings Industry Inc.
NAAMM National Association of Architectural Metal Manufacturers
NACE NACE International (National Association of Corrosion Engineers International)
NADCA National Air Duct Cleaners Association
NAIMA North American Insulation Manufacturers Association
NBGQA National Building Granite Quarries Association, Inc.
NCAA National Collegiate Athletic Association (The)
NCMA National Concrete Masonry Association
NEBB National Environmental Balancing Bureau
NECA National Electrical Contractors Association
NeLMA Northeastern Lumber Manufacturers Association
NEMA National Electrical Manufacturers Association
NETA InterNational Electrical Testing Association
NFHS National Federation of State High School Associations
NFPA NFPA (National Fire Protection Association)
NFPA NFPA International (See NFPA)
NFRC National Fenestration Rating Council
NHLA National Hardwood Lumber Association
NLGA National Lumber Grades Authority

NOFMA National Oak Flooring Manufacturers Association (See NWFA)
NOMMA National Ornamental & Miscellaneous Metals Association
NRCA National Roofing Contractors Association
NRMCA National Ready Mixed Concrete Association
NSF NSF International (National Sanitation Foundation International)
NSPE National Society of Professional Engineers
NSSGA National Stone, Sand & Gravel Association
NTMA National Terrazzo & Mosaic Association, Inc. (The)
NWFA National Wood Flooring Association
PCI Precast/Prestressed Concrete Institute
PDI Plumbing & Drainage Institute
PLASA PLASA (Formerly: ESTA - Entertainment Services and Technology Association)
RCSC Research Council on Structural Connections
RFCI Resilient Floor Covering Institute
RIS Redwood Inspection Service
SAE SAE International (Society of Automotive Engineers)
SBCCI Southern Building Code Congress International, Inc. (See ICC)
SCTE Society of Cable Telecommunications Engineers
SDI Steel Deck Institute
SDI Steel Door Institute
SEFA Scientific Equipment and Furniture Association
SEI/ASCE Structural Engineering Institute/American Society of Civil Engineers (See ASCE)
SIA Security Industry Association
SJI Steel Joist Institute
SMA Screen Manufacturers Association
SMACNA Sheet Metal and Air Conditioning Contractors' National Association
SMPTE Society of Motion Picture and Television Engineers
SPFA Spray Polyurethane Foam Alliance
SPIB Southern Pine Inspection Bureau
SPRI Single Ply Roofing Industry
SRCC Solar Rating and Certification Corporation
SSINA Specialty Steel Industry of North America
SSPC SSPC: The Society for Protective Coatings
STI Steel Tank Institute
SWI Steel Window Institute
SWPA Submersible Wastewater Pump Association
TCA Tilt-Up Concrete Association
TCNA Tile Council of North America, Inc.
TEMA Tubular Exchanger Manufacturers Association, Inc.
TIA Telecommunications Industry Association (Formerly: TIA/EIA - Telecommunications Industry Association/Electronic Industries Alliance)
TIA/EIA Telecommunications Industry Association/Electronic Industries Alliance (See TIA)
TMS The Masonry Society
TPI Truss Plate Institute
TPI Turfgrass Producers International
TRI Tile Roofing Institute
UBC Uniform Building Code (See ICC)
UL Underwriters Laboratories Inc.
UNI Uni-Bell PVC Pipe Association
USAV USA Volleyball
USGBC U.S. Green Building Council
USITT United States Institute for Theatre Technology, Inc.
WASTEC Waste Equipment Technology Association
WCLIB West Coast Lumber Inspection Bureau
WCMA Window Covering Manufacturers Association
WDMA Window & Door Manufacturers Association

WI Woodwork Institute (Formerly: WIC - Woodwork Institute of California)
WMMPA Wood Moulding & Millwork Producers Association (See MMPA)
WSRCA Western States Roofing Contractors Association
WWPA Western Wood Products Association

C. Code Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list.

DIN Deutsches Institut fur Normung e.V.
IAPMO International Association of Plumbing and Mechanical Officials
ICC International Code Council
ICC-ES ICC Evaluation Service, LLC

C. Federal Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list.

COE Army Corps of Engineers
CPSC Consumer Product Safety Commission
DOC Department of Commerce
National Institute of Standards and Technology
DOD Department of Defense
DOE Department of Energy
EPA Environmental Protection Agency
FAA Federal Aviation Administration
FG Federal Government Publications
GSA General Services Administration
HUD Department of Housing and Urban Development
LBL Lawrence Berkeley National Laboratory
Environmental Energy Technologies Division
OSHA Occupational Safety & Health Administration
SD Department of State
TRB Transportation Research Board
National Cooperative Highway Research Program
USDA Department of Agriculture
Agriculture Research Service
U.S. Salinity Laboratory
USDA Department of Agriculture
Rural Utilities Service
USDJ Department of Justice
Office of Justice Programs
National Institute of Justice
USP U.S. Pharmacopeia
USPS United States Postal Service

E. Standards and Regulations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the standards and regulations in the following list.
CFR Code of Federal Regulations
Available from Government Printing Office
DOD Department of Defense
Military Specifications and Standards
Available from Department of Defense Single Stock Point
DSCC Defense Supply Center Columbus (See FS)
FED-STD Federal Standard (See FS)

FS Federal Specification
Available from Department of Defense Single Stock Point
Available from Defense Standardization Program
Available from General Services Administration
Available from National Institute of Building Sciences/Whole Building Design Guide
MILSPEC Military Specification and Standards (See DOD)
USAB United States Access Board
USATBCB U.S. Architectural & Transportation Barriers Compliance Board (See USAB)

F. State Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list.

CBHF State of California
Department of Consumer Affairs
Bureau of Home Furnishings and Thermal Insulation
CCR California Code of Regulations
Office of Administrative Law
California Title 24 Energy Code
CDHS California Department of Health Care Services (Formerly: California Department of Health Services) (See CCR)
CDPH California Department of Public Health
Indoor Air Quality Program
CPUC California Public Utilities Commission
SCAQMD South Coast Air Quality Management District
TFS Texas Forest Service
Forest Resource Development and Sustainable Forestry

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 014200

SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.

B. Related Requirements:

1. Section 012500 "Substitution Procedures" for requests for substitutions after contract award.

1.2 DEFINITIONS

A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.

1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
3. Comparable Product: Product that is demonstrated and approved through submittal process to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

B. Basis-of-Design Product Specification: A specification in which a specific manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of additional manufacturers.

1.3 ACTION SUBMITTALS

A. Comparable Product Requests: Submit request for consideration of each comparable product. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

1. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Architect will notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

a. Form of Approval: As specified in Section 013300 "Submittal Procedures."

b. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.

B. Basis-of-Design Product Specification Submittal: Comply with requirements in Section 013300 "Submittal Procedures." Show compliance with requirements.

1.4 QUALITY ASSURANCE

A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

1. Each contractor is responsible for providing products and construction methods compatible with products and construction methods of other contractors.
2. If a dispute arises between contractors over concurrently selectable but incompatible products, Architect will determine which products shall be used.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.

B. Delivery and Handling:

1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
4. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.

C. Storage:

1. Store products to allow for inspection and measurement of quantity or counting of units.
2. Store materials in a manner that will not endanger Project structure.
3. Store products that are subject to damage by the elements, under cover in a weather tight enclosure above ground, with ventilation adequate to prevent condensation.
4. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
5. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
6. Protect stored products from damage and liquids from freezing.

1.6 PRODUCT WARRANTIES

A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.

B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.

1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
3. Refer to other Sections for specific content requirements and particular requirements for submitting special warranties.

C. Submittal Time: Comply with requirements in Section 017700 "Closeout Procedures."

PART 2 – PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

A. Foreign Materials: In accordance with State Law, provide only materials manufactured, mined, or processed in the United States or its territories.

B. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.

1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
4. Where products are accompanied by the term "as selected," Architect will make selection.
5. Descriptive, performance, and reference standard requirements in the Specifications establish salient characteristics of products.

C. Product Selection Procedures:

1. Product: Where Specifications name a single manufacturer and product, provide the named product that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.

3. Products:

a. Restricted List: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered, unless otherwise indicated.

b. Nonrestricted List: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product.

4. Manufacturers:

a. Restricted List: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered, unless otherwise indicated.

b. Nonrestricted List: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed, or a product by an unnamed manufacturer, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed manufacturer's product.

5. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product or manufacturer.

D. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.

1. If no product available within specified category matches and complies with other specified requirements, comply with requirements in Section 012500 "Substitution Procedures" for proposal of product.

E. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 COMPARABLE PRODUCTS

A. Conditions for Consideration: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with these requirements:

1. Evidence that the proposed product does not require revisions to the Contract Documents, that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
3. Evidence that proposed product provides specified warranty.
4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.

5. Samples, if requested.

PART 3 - EXECUTION (Not Used)

END OF SECTION 016000

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:

1. Project closeout requirements.
2. Substantial Completion procedures.
3. Final completion procedures.
4. Warranties.
5. Final cleaning.
6. Repair of the Work.

B. Related Requirements:

1. Section 013233 "Photographic Documentation" for submitting final completion construction photographic documentation.
2. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.2 ACTION SUBMITTALS

A. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

B. Certified List of Incomplete Items: Final submittal at Final Completion.

1.3 CLOSEOUT SUBMITTALS

A. Certificates of Release: From authorities having jurisdiction.

B. Certificate of Insurance: For continuing coverage.

C. Closeout Binder: Submit one Closeout Binder labeled “Closeouts” including UA project name and job number with all applicable items in order as listed in Project Closeout Requirements.

1.4 PROJECT CLOSEOUT REQUIREMENTS

A. General: Except as noted, delivery of listed items are prerequisites for release of final retainage.

B. Submit the following closeout items before requesting inspection for determining date of Substantial Completion:

1. As-built drawings and specifications with mark-ups.
2. Weekly safety meeting minutes.
3. Certificate of Occupancy from the city.
4. UA Project Manager to submit State Insurance Fund Form.

C. Submit the following items to successfully close out the project after Substantial Completion:

1. Record Documents.

a. As-built drawings on mylar reproducible, as-built specifications (on disk), and asbuilt drawings (on disk, in AutoCad format) as required in Section 00700, Article 6.

2. Advertisement of Completion, certified by Tuscaloosa News (4 consecutive weeks and must provide original signature and notary seal).
3. Affidavit of Release of Liens from Contractor, with attached Release of Liens from Contractor and all subcontractors.
4. Warranties from Contractor and all subcontractors (if applicable).
5. Extended manufacturer's warranties.
6. Receipt for return of all keys – transmit to UA Project Manager.
7. Delivery of maintenance stock, filters, and spare parts.
8. Fully executed Certificate of Substantial Completion.
9. Execution of final Change Order.
10. Receipt of Consent of Surety to Final Payment (date of Power of Attorney must be same or later than date indicated on Consent of Surety).
11. Certification that final punch lists have been completed.
12. Allowances and unit costs settlement.
13. Construction Debris Report.
14. DBE requirements, when applicable, reported and final submission on file with the University.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number where applicable.

a. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Architect's signature for receipt of submittals.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.

1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction

photographic documentation, damage or settlement surveys, and similar final record information.

3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
4. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.

C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.

1. Advise Owner of pending insurance changeover requirements.
2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
3. Perform preventive maintenance on equipment used prior to Substantial Completion.
4. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
5. Complete final cleaning requirements, including touchup painting.
6. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.

D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

1. Perform a pre-final inspection, prepare a punch list, and work off all items prior to Architect inspection.
2. Provide copy of completed report certifying that punch list is complete prior to Architect beginning his inspections.
3. Re-inspection: Request re-inspection when the Work identified in previous inspections as incomplete is completed or corrected.
4. Results of completed inspection will form the basis of requirements for final completion.

E. Architect will make one inspection at Substantial Completion at the Architect's cost.

1. For inspections in excess of the one, the Contractor shall reimburse the Owner for additional services required of the Architect and the Architect's consultants for these additional inspections.
2. Architect will repeat inspection when requested and assured that the Work has been substantially completed.
3. Results of the completed inspection will form the basis of requirements for final acceptance.

1.7 FINAL COMPLETION PROCEDURES

A. Preliminary Procedures: Before requesting final inspection for determining final completion, complete the following:

1. Submit a final Application for Payment according to Section 012900 "Payment Procedures."

a. Submit the list of prerequisites to final payment in a 3-ring loose-leaf binder as specified. Items must be submitted and approved by Architect prior to final inspection.

2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.

3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.

B. Inspection: Submit a written request for final inspection to determine acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
2. For inspections in excess of the one, the Contractor shall reimburse the Owner, for additional services required of the Architect and the Architect's consultants for these additional inspections.

C. Inspections will be conducted by the Architect, engineers, University personnel, and appropriate public officials, as required.

D. Year End Inspection: Schedule an inspection with the Architect, engineers, University personnel, and public officials approximately one year after substantial completion.

1. Prepare a report of deficiencies and remedy all defects prior to the one year anniversary.

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

1. Organize list of spaces in sequential order, proceeding from lowest floor to highest floor.
2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
3. Submit list of incomplete items in the following format:

a. PDF electronic file.
b. Three paper copies, unless otherwise indicated.

1.9 SUBMITTAL OF PROJECT WARRANTIES

A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
B. Organize warranty documents into an orderly sequence based on the table of contents of the Project Manual.

1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch paper.
2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
4. Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide table of contents at beginning of document.

C. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 – EXECUTION

3.1 FINAL CLEANING

A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

1. Coordinate cleaning requirements with the Owner’s custodial service management at least 10 weeks prior to the project being turned over to the University.
2. Custodial Services requires 10 working days after construction project has been turned over to the University, and before occupancy, in order to detail clean the building if needed.

B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.

1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:

a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
d. Remove tools, construction equipment, machinery, and surplus material from Project site.

e. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
f. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
g. Sweep concrete floors broom clean in unoccupied spaces.
h. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials.
i. Polish mirrors and glass, taking care not to scratch surfaces.
j. Remove dust from all surfaces including windows, window sills, walls, built in fixtures, baseboards, handrails, moldings, ceilings, exposed piping, and hard surface floors.
k. Remove labels that are not permanent.
l. Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
m. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
n. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
o. Leave Project clean and ready for occupancy.

3.2 REPAIR OF THE WORK

A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.

B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.

1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.

a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.

3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION 017700

SECTION 017839 - PROJECT RECORD DOCUMENTS

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for project record documents, including the following:

1. Record Drawings.
2. Record Specifications.
3. Record Product Data.
4. Miscellaneous record submittals.

1.2 CLOSEOUT SUBMITTALS

A. Record Drawings: Comply with the following:

1. Submit one set of record mylar transparencies and one set of marked-up Record Prints. Architect will initial and date each transparency and mark whether general scope of changes, additional information recorded, and quality of drafting are acceptable. Architect will return transparencies for organizing into sets, printing, binding and final submittal.
2. Final Submittal to Owner: Submit one set record mylar transparencies and one copy of Record Drawings on compact disc in AutoCAD, latest version. AutoCAD files are to be “bound”, not in X’ref format. Print each Drawing, whether or not changes and additional information were recorded. Submit to Owner as part of Project Record Documents.

B. Record Specifications: Submit one electronic CD/DVD copy of Projects Specifications in Microsoft Word format, including addenda and contract modifications. Submit to Owner as part of Project Record Documents.

C. Record Product Data: Submit one printed copy and one electronic CD/DVD copy of each Product Data Submittal.

1. Where Record Product Data is required as part of operation and maintenance manuals, submit marked-up Product Data in closeout binder as an insert in manual instead of submittal as Record Product Data.

PART 2 – PRODUCTS

2.1 RECORD DRAWINGS

A. Record Prints: Maintain one set of marked-up black-line paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised Drawings as modifications are issued.

1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
b. Record data as soon as possible after obtaining it.
c. Accurately record information in an understandable drawing technique.
d. Record and check the markup before enclosing concealed installations.

2. Content: Types of items requiring marking include, but are not limited to, the following:

a. Dimensional changes to Drawings.
b. Revisions to details shown on Drawings.
c. Depths of foundations below first floor.
d. Locations and depths of underground utilities.
e. Revisions to routing of piping and conduits.
f. Revisions to electrical circuitry.
g. Actual equipment locations.
h. Duct size and routing.
i. Locations of concealed internal utilities.
j. Changes made by Change Order or Construction Change Directive.
k. Changes made following Architect's written orders.
l. Details not on the original Contract Drawings.
m. Field records for variable and concealed conditions.
n. Record information on the Work that is shown only schematically.

3. Mark the Contract Drawings and Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
4. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
5. Mark important additional information that was either shown schematically or omitted from original drawings.
6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

B. Record Transparencies: Immediately before inspection for Certificate of Substantial Completion, review marked-up Record Prints with Architect. When authorized, prepare a full set of corrected transparencies of the Contract Drawings and Shop Drawings.

1. Incorporate changes and additional information previously marked on Record Prints. Erase, redraw, and add details and notations where applicable.
2. Refer instances of uncertainty to Architect for resolution.
3. Architect will furnish Contractor one set of contract drawings in electronic format, or pdf files, for use in recording information.
4. Print the Contract Drawings and Shop Drawings for use as Record Transparencies.

C. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING (AS-BUILTS)" in a prominent location on the cover sheet.

1. Record Transparencies: Organize into unbound sets matching Record Prints. Place transparencies in durable tube-type drawing containers with end caps. Mark end cap of each container with identification. If container does not include a complete set, identify Drawings included.

2. Identification: As follows:
a. Project name.
b. Date.

c. Designation "PROJECT RECORD DRAWINGS (AS-BUILTS)."
d. Name of Architect.
e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. For each principal product, indicate whether Record Product Data has been submitted in operation and maintenance manuals instead of submitted as Record Product Data.
5. Note related Change Orders, record Product Data, and record Drawings where applicable.

2.3 RECORD PRODUCT DATA

A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
3. Note related Change Orders, record Specifications, and record Drawings where applicable.

2.4 MISCELLANEOUS RECORD SUBMITTALS

A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.

PART 3 – EXECUTION

3.1 RECORDING AND MAINTENANCE,

A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.

1. The Owner and Architect will periodically review record documents to assure compliance with this requirement.

B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's reference during normal working hours.

END OF SECTION 017839

SECTION 274000 – AUDIOVISUAL – GENERAL REQUIREMENTS

PART 11 - GENERAL

11.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

B. Equipment list attached herein, provide all materials and equipment explicitly specified and all things implied or required to provide a complete, functional audiovisual system.

C. Provide all labor, tools, and services required for installation of the audiovisual system as designed in the drawings and equipment list.

11.2 SUMMARY

A. The work covered under this Section consists of furnishing all labor, materials, and services required and necessary to install a complete audiovisual system as indicated in the contract documents with full spirit of intent.

B. The scope of work covered under this Section includes but not limited to:

1. Equipment and installation labor as noted on the contract documents for a fully-functional audiovisual system.
2. All equipment and systems indicated on contract documents including equipment list and drawings.
3. The awarded installing contractor shall be responsible for the following:
    a. Verification of accuracy and completeness of equipment lists, dimensions, mounting details, and equipment compatibility.
    b. Accurate documentation of the system operation and installation.
    c. One Year Warranty of the equipment and installation.
    d. Test equipment, tools, ladders, lifts, scaffolding as required for installation.
    e. Daily Clean-Up of debris caused by audiovisual installation.
    f. Quality Control/Commissioning of System.
    g. End User training and operation manuals.

11.3 PROJECT INFORMATION

A. Project Identification: New Strength & Conditioning Facility – Furniture / Equipment / Technology Package

1. Project Location: University of Alabama, Tuscaloosa, Alabama.

B. Owner: The University of Alabama.

C. Architect: Davis Architects, Inc.; 120 Twenty Third Street South, Birmingham, Alabama 35233.

11.4 QUALIFICATIONS

A. The bidding and awarded contractor for the audiovisual system must have full-time employees on staff possessing INFOCOMM Certified Technology Specialists as listed below. In addition, the Contractor must provide one CAIP (Crestron Authorized Independent Programmer) and one Crestron DMC-E certified full-time employee. Also require one certified London Architect Designer. One team member is allowed to fulfill more than one requirement, however there must be one CTS-I team member representing the onsite installation team.

1. Provide at least 5 similar size projects in collegiate facilities completed in the last 5 years.

2. INFOCOMM CTS-I Full-Time employee in good-standing

3. INFOCOMM CTS-D Full-Time employee in good-standing

4. CAIP

5. Crestron DMC-E Full-Time employee in good-standing

6. CERTIFIED LONDON ARCHITECT DESIGNER

11.5 System Description

A. The Strength and Conditioning Facility shall have an audiovisual system consisting of audio, video, and control components. The sounds system component as called out in the equipment and drawings should provide a high-SPL full range sound system for working out and double use as an event sound system for giving tours and speeches. The video component will consist of a mixture of 70” and 47” TV’s through-out the space allowing for watching the in-house television feed and presentations from various system inputs over an HD Base-T digital backbone (Crestron Digital Media). The control system component of the system will give coaches and staff access to typical volume and routing as well as presets and automation. Areas covered in this scope include the main weight/cardio area, Nutrition Center, Video Room, Offices, Lobby area.

The weight room area will consist of four portrait signage 70” displays, 6 wall-mounted 70” TV’s, and 6 wall-mounted 47” TV’s all with the ability to pull from digital distribution or RF feed. The sound system shall include High-SPL speakers with subwoofers to provide impact for work-out music, presentations, and voice reinforcement. This entire area is controlled via a wireless touch panel.

The Nutrition Center will consist of a wall-mounted 70” TV with the ability to show inputs from the main system including a dedicated PC with USB extenders.

The Video Room has a system input consisting of VGA and HDMI for distribution through-out the Strength and Conditioning Facility.

The offices will support local HDMI inputs and RF via 47” wall-mounted TV’s.

The Lobby has a local system input and a wall-mounted 70” TV connected to the distribution system. The Lobby has a small keypad controller allowing input selection and volume control of the local Lobby distributed sound system. This audio system will support microphones and presentation content.

11.6 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of the Project is defined by the Contract Documents and consists of the following:

1. Procurement, storage and delivery at a time to be determined by Owner, of audiovisual system for the Strength & Conditioning Facility.

2. Installation and testing of audiovisual system for the Strength & Conditioning Facility.

3. Provision of product data for approval, no substitutions

4. Shop Drawings for approval, including necessary structural stamping required for overhead speakers and displays.

5. Custom Control System Programming Code and Power Management, Code must be submitted for approval, final code archived code provided to Owner.

6. Operation and Maintenance Manuals

11.7 Type of Contract

1. Project will be constructed under a single prime contract.

Contract Time of Completion:

1. Audiovisual product data must be submitted to the Architect 10 business days from award of contract.

2. Audiovisual product data must be approved prior to procurement of equipment.

3. Audiovisual shop drawings must be submitted to the Architect 20 business days from award of contract.

4. Audiovisual contractor must submit schedule of completion to the General Contractor 20 business days from award of contract showing substantial completion of audiovisual system installation coinciding with current General Contractor schedule.

11.8 ACCESS TO SITE

A. General: Contractor shall have limited use of Project site for construction operations as indicated by requirements of this Section.

B. Use of Site: Limit use of Project site to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Driveways, Walkways and Entrances: Keep driveways loading areas, and entrances serving premises clear and available to Owner, Owner’s employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.

a. Schedule deliveries to minimize use of driveways and entrances by construction operations.

b. Schedule deliveries to minimize space and time requirements for storage of materials equipment on-site.

c. No deliveries between 7:30 a.m. – 8:15 a.m. Monday – Friday.

C. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.

11.9 COORDINATION WITH OCCUPANTS

A. Full Owner Occupancy: Owner will occupy site and existing adjacent building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.

1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.

2. Notify the Owner not less than 72 hours in advance of activities that will affect Owner's operations.

B. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed portions of the Work, prior to Substantial Completion of the Work, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.

1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner acceptance of the completed Work.

2. Obtain a Certificate of Occupancy from authorities having jurisdiction before limited Owner occupancy.

3. Before limited Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of Work.

4. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of Work.

11.10 WORK RESTRICTIONS

A. Work Restrictions, General: Comply with restrictions on construction operations.

1. Comply with limitations on use of public streets and other requirements of authorities having jurisdiction.

B. On-Site Work Hours: Work shall be generally performed during normal business working hours of 7:00 a.m. to 6:00 p.m., Monday through Friday, except as otherwise indicated.

1. Weekend Hours: As agreed during the preconstruction meeting.

2. Early Morning Hours: As agreed during the preconstruction meeting.

3. Hours for Utility Shutdowns: 72 hours prior notice.

4. Game Weekends: No work to be performed after 12:00 PM on Friday to 7:00 AM on Sunday.

C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:

1. Notify Owner not less than two days in advance of proposed utility interruptions.

2. Obtain Owner's written permission before proceeding with utility interruptions.

D. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.

1. Notify Owner not less than two days in advance of proposed disruptive operations.

E. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor air intakes.

11.11 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 1 General Requirements: Requirements of Sections in Division 1 apply to the Work of all Sections in the Specifications.

C. Drawing Coordination: Requirements for materials and products are described in detail and identified on the Drawings.

11.12 SUBMITTALS

A. Awarded contractor for the audiovisual systems shall provide the following submittals prior to procurement and installation of equipment.

1. Product Data Sheets including colors of equipment (Electronically Submitted)
2. Shop Drawings, including fabrication details and stamping of overhead components weighing over 50lbs. (Electronically Submitted)
3. Schedule (Electronically Submitted)

4. Submit Project Team including a minimum of one INFOCOMM CTS-D and one CTS-I accredited team member, Certified London Architect Designer, Crestron DMC-E, and one CAIP (Crestron Authorized Independent Programmer)

B. Awarded contractor for the audiovisual systems shall provide the following submittals within 20 days of completion of installation.

1. Operation and Maintenance manuals (Electronically Submitted)
2. As-Built Drawings with nominal settings notated, dip switch information, and etc. (Electronically Submitted)
3. Programming Source Code – All code custom programmed for the audiovisual system including Crestron and HiQnet must be provided to Owner (Electronically Submitted)

11.13 Exclusions

A. Awarded contractor for the audiovisual systems shall provide a complete and functioning system per equipment list and contract drawings. Certain trades are shown on contract drawings as pertinent information but not included by the awarded audiovisual system contractor.

1. RF Distribution to the TV's and equipment closet or closets not provided under this contract.

2. Data Connectivity to TV's and equipment closet or closets related to certified Owner data drops not provided under this contract while data specifically associated to operate the audiovisual audio and controls systems are included by audiovisual contractor.

3. Conduit and Electrical Outlets called out on contract drawings are by the Electrical Contractor. J-Hooks and things of that nature are by Audiovisual Contractor.

11.14 Warranty

A. To maintain certain manufacturer's warranties, equipment must be installed, aligned and serviced by those installers authorized by that manufacturer to perform those duties. If the awarded Contractor is not authorized, by the manufacturer, it is the awarded Contractor's sole responsibility to make the appropriate arrangements and bear all cost and consequences.

B. In the case of awarded Contractor-modified equipment, the manufacturer's warranty is normally voided. In such cases, the awarded Contractor shall provide the Owner with a warranty equivalent to that of the original manufacturer.

C. In the event of malfunction or failure of any audiovisual equipment provided by the awarded Contractor, the awarded Contractor shall be responsible for replacement of faulty equipment, or providing "loaner" equipment at no cost to the Owner for the duration of the repairs. In the event that "loaner" equipment is provided, said equipment shall meet or exceed the original equipment specifications until the original equipment is replaced.

D. In cases where the awarded Contractor is providing and awarded audiovisual equipment and/or hardware to be integrated with equipment furnished by others, it shall be the responsibility of the awarded Contractor to warrant their equipment as described in the Contract Documents unless said equipment shows misuse and or abuse by others during re-installation or connection of equipment by others.

E. The awarded Contractor shall respond via telephone within two (2) hours to any request for service.

F. The awarded Contractor shall provide on-site support within 48 business hours for non-emergency conditions such as one TV or input not functioning properly.

G. The awarded Contractor shall provide on-site support within 24 business hours for emergency conditions such as complete inoperability.

H. Business Hours understood to be Monday thru Friday 8am to 5pm CST with exceptions to observed holidays by either awarded Contractor or Owner.

I. The awarded Contractor shall make available personnel knowledgeable with the installed audiovisual system who can offer specific instructions to address issues discussed during phone support.

PART 12 - PRODUCTS

12.1 Equipment List

A. Provide Equipment shown on this equipment list and contract drawings to provide a complete audiovisual system.

B. Provision of Equipment quantities to audiovisual bidder does not constitute change order capability due to quantity issues. Audiovisual contractor must provide complete system.

Qty.	Unit	Model Number	Manufacturer	Description
1	ea	BLU-80	BSS	Networked signal processor with CobraNet™ chassis - requires up to four input/ output cards*
3	ea	BLUCARD-IN	BSS	4 analog input mic/line card for Soundweb London Chassis
1	ea	BLUCARD-OUT	BSS	4 analog output card for Soundweb London Chassis
1	ea	TCA	C.Crane	Twin Coil Ferrite AM Antenna
1	ea	J50	C.Crane	Twin Coil Ferrite 50 ft Extension Cable Kit
1	ea	J25	C.Crane	Twin Coil Ferrite 25 ft Extension Cable Kit
1	ea	JAC	C.Crane	Extension Cable Coupler
1	ea	FAN	C.Crane	FanFare FM Antenna
13	ea	TS325TU	Chief	Medium Thinstall Dual Swing Arm Mount - 25" Extension
8	ea	TS525TU	Chief	Large Thinstall Dual Swing Arm Mount - 25" Extension
6	ea	232-ATSC+1	Contemporary Research	CATV ATSC Tuner
6	ea	CC-COM	Contemporary Research	RS-232 Biege Null Modem Cable, DB9F, 6'
3	ea	RK2-HD+1	Contemporary Research	Rack Mount, Dual
1	ea	DM-MD32X32	Crestron	32x32 DigitalMedia™ Switcher
8	ea	DMC-HD	Crestron	HDMI® Input Card for DM Switchers
5	ea	DMC-DVI	Crestron	DVI/RGB Input Card for DM Switchers
4	ea	DMC-C	Crestron	DigitalMedia 8G+™ Input Card
2	ea	DMCO-53	Crestron	2 DM 8G+ w/1 HDMI & 2 HDMI w/2 Stereo Analog Audio Output Card
5	ea	DMCO-55	Crestron	4 DM 8G+ w/2 HDMI Output Card
1	ea	PRO2	Crestron	Professional Dual Bus Control System
2	ea	C2COM-3	Crestron	3 Port RS-232/422/485 Card for Y-Bus Expansion Slot
1	ea	C2ENET-1	Crestron	Single Port Ethernet Card for Z-Bus Expansion Slot
1	ea	TPS-6XWALL-W-S	Crestron	Isys® 5.7" Wall Mount Wireless Touchpanel, Gloss White
1	ea	BB-6X-DSW	Crestron	Pre-Construction Wall Mount Back Box
1	ea	CEN-HPRFGW	Crestron	Extended Range RF Wireless Gateway
1	ea	PW-2420RU	Crestron	Power Supply for Docking Station
Qty.	**Unit**	**Model Number**	**Manufacturer**	**Description**

14	ea	DM-RMC-SCALER-C	Crestron	DigitalMedia Receiver & Display Controller w/Scaler
LOT	ea	DM-CBL-8G-P-SP500	Crestron	Plenum DigitalMedia 8G™ Cable
LOT	ea	DM-8G-CONN-100	Crestron	DigitalMedia 8G™ Cable Connector
2	ea	DM-TX-200-C-2G-W-T	Crestron	Wall Plate DigitalMedia 8G+™ Transmitter 200, White Textured
1	ea	C2N-DB12-W-S	Crestron	Decorator Keypad, 12-Buttons, White, Gloss
2	ea	CTS1200USP4CN	Crown	600W per Channel Amplifier - 1st Level
2	ea	CTS1200USP4CN	Crown	600W per Channel Amplifier - 2nd Level
1	ea	CTS2000USP4CN	Crown	1000W per Channel Amplifier - Weight Room
3	ea	IT5000HD	Crown	2500W per Channel Amplifier - Subwoofers
8	ea	60-583-21	Extron	CPM101 - MAAP Mounting Frame (White)
1	ea	60-610-21	Extron	3.5 mm Stereo Mini Input - White
7	ea	70-617-13	Extron	HDMI MAAP Plate - with 10" pigtail (White)
8	ea	70-315-23	Extron	Triple Space Blank MAAP Plate (White)
19	ea	26-663-06	Extron	6' HDMI Cable
9	ea	26-649-06	Extron	6' DVI Cable
8	ea	26-620-01	Extron	CSM 6 Audio Adapter
8	ea	26-571-03	Extron	6' Mini Audio Cable
2	ea	26-663-12	Extron	12' HDMI Cable
2	ea	26-566-03	Extron	12' VGA with Audio Cable
1	ea	60-871-12	Extron	USB Extender Transmitter
1	ea	60-871-22	Extron	USB Extender Receiver
1	ea	60-190-01	Extron	Rack Mount Shelf
6	ea	ASB6125WH	JBL	High Power Dual 15" Subwoofer (White)
6	ea	TBD	JBL	Custom Subwoofer Rigging Hardware
7	ea	KD-HDPC30	Key Digital	30' Plenum HDMI Cable
13	ea	47LV355B	LG	47" Commercial Grade TV
1	ea	LS-03-216-01	Listen	Performance FM System (216 MHz)
4	ea	LR-400-216	Listen	Portable Display FM Receiver (216 MHz)
8	ea	LA-362	Listen	Rechargeable AA NiMH Batteries (2)
1	ea	LA-311-01	Listen	16-Unit Portable FM Product Charging/Carrying Case
4	ea	LA-164	Listen	Ear Speaker
1	ea	LA-117	Listen	Coaxial Dipole
Qty.	**Unit**	**Model Number**	**Manufacturer**	**Description**
24	ea	30N-X-54	Mason Industries	Isolation Hanger - 54lb White Spring - Verify Weight

2	ea	MRK-4026AXS	Middle Atlantic	37 Space Slide Out Rack
2	ea	TRACK50	Middle Atlantic	Service Track Extension
2	ea	TRACKL	Middle Atlantic	Service Track Leveler
8	ea	AXS-FAN	Middle Atlantic	Fan for Equipment Rack
2	ea	D4	Middle Atlantic	Rack Drawer
1	ea	PBL1-CP12	Middle Atlantic	1RU Blank Panel - Contractor Pack
2	ea	BR1	Middle Atlantic	Brush for Patch Cords
2	ea	UPS-1000R	Middle Atlantic	1000VA UPS (2 Space)
2	ea	MPR-6A	Middle Atlantic	Modular Raceway - Supports up to 6 Modules
9	ea	RLM-20A	Middle Atlantic	Remote Power Module - 20A
3	ea	M-20A	Middle Atlantic	Power Module - 20A
2	ea	GSM7224P-100NES	Netgear	ProSafe Switch - 24 Port, Poe, Rack-Mountable
4	ea	PRV70WRCHDBT	Primeview	70" LCD with HDBaseT - Portrait Mode
4	ea	PVACUSTOM	Primeview	Custom Portrait Mounts
2	ea	TX-LC2	RDL	Unbalanced Stereo to Balanced Mono
1	ea	PS-24AS	RDL	24 Vdc 400mA N. American Pwr Supply - Leads
5	ea	STD-10K	RDL	Passive Audio Divider/Combiner - 10K Ohm
8	ea	LC70LE640U	Sharp	70" Consumer TV
2	ea	UR124D/SM58-H4	Shure	Dual Channel System (2) UR2/SM58 HH & (2) UR1 BP
1	ea	UA845-SWB	Shure	Wideband UHF Five-Way Active Antenna and Power Distribution System
2	ea	UA870USTV	Shure	UHF Active Directional Antenna
3	ea	UA8100	Shure	100’ UHF Remote Antenna Extension Cable, BNC-BNC, RG8X/U Type
24	ea	HP1290i-WH	Soundtube	High Power 12" Open-Ceiling Speaker (White)
75	ea	CM690i-WH	Soundtube	6.5" High SPL Ceiling Speaker (White)
9	ea	AC-CM8-PCB	Soundtube	Pre-Construction Bracket
8	ea	CM890i-WH	Soundtube	8" High SPL Ceiling Speaker (White)
8	ea	CM1001d-T-WH	Soundtube	10" In-Ceiling Subwoofer (White)
1	ea	CD-200I	Tascam	Professional Single CD Player • Built-in iPod dock
Qty.	**Unit**	**Model Number**	**Manufacturer**	**Description**
1	ea	DT-930 UL	Toa	AM/FM Tuner
1	ea	MB-15B	Toa	Rack Mount Kit
Lot	ft	25226B	West Penn	Plenum 14AWG Speaker Cable
Lot	ft	25227B	West Penn	Plenum 12AWG Speaker Cable

Lot	ft	25210	West Penn	Plenum 10AWG Speaker Cable
Lot	ft	D25350	West Penn	Plenum Control Cable
Lot	ft	25225B	West Penn	Plenum 16AWG Power Cable
Lot	ft	254246	West Penn	Plenum Data Cable
Lot	ft	25291B	West Penn	Plenum Audio Cable

PART 13 - EXECUTION

13.1 PREPERATION

A. Before starting installation of devices by means of mechanical or electrical connection, verify proper work has been performed by others, i.e. do not hang subwoofers to unfinished or un-properly prepared structural steel members.

B. Frequency Coordination – Prior to ordering any frequency sensitive wireless equipment, coordinate the frequencies with surrounding TV and Radio stations including nearby drive-ins and local RF equipment near the site.

13.2 QUALITY CONTROL/COMMISSIONING

A. Perform all required and necessary testing and documentation necessary for the nature of this audiovisual system. I.E. – Digital Media system must pass bandwidth tests on all inputs and outputs up to 1920 x 1080 @ 60Hz.

B. Testing requirements provided in this section but certainly not to preclude accepted industry best practices

C. Prepare to provide test results to commissioning agents or manufacturer to assist with troubleshooting problematic or under-performing systems.

13.3 INSTALLATION PRACTICES

A. Cable Installation
   1. All Wire bundles are to be neat and combed, free of cable cross-overs.
   2. All cables shall be grouped according to the signals being carried. In order to reduce signal contamination, separate groups shall be formed for the following cable families
      a. Power Cables
      b. Control Cables
      c. Line Level Cables
      d. Microphone Level Cables
      e. Speaker Cables
      f. Video Cables
   3. All cables shall be cut to the length dictated by the run. No splices shall be permitted in any pull boxes.
   4. Cables running in plenum areas without conduit shall be plenum rated cables.

B. Cable Labels

1. Labels shall be computer-generated for legibility and protected with clear wrap or wire shrink.
2. Temporary labels are permissible for installation but must be replaced with permanent labels.
3. All cables must be labeled.

C. Grounding
1. Maximize signal to noise ratio by following proper grounding techniques called out on the drawings and adhering to common practices.

D. Test Equipment
1. Provide testing equipment during the installation and final acceptance by Owner to provide proof and numerical data indicating proper function of system.
    a. Perform Impedance checks on speaker lines prior to connection and document results.
    b. Perform sweeps of audio system to verify full 32Hz to 20 KHz performance and EQ have been performed. Record results of 1KHZ tone in various areas to check tap values are set consistently.
    c. Perform data bandwidth checks on digital media cables and provide digital media test results.
    d. Confirm 1920 x 1080 @ 60Hz passes on both VGA and HDMI inputs to all displays.
    e. Confirm Microphone System performs without feedback and RF drop out.
    f. Confirm Control System buttons work as indicated.

13.4 PERFORMANCE STANDARDS

A. Verify installation adheres to standard practices as indicated by INFOCOMM CTS-I and normal industry accepted practices.

B. Verify operation of individual equipment as well as the operation of the system as a whole. Provide all features and functions as implicitly and explicitly expressed in the contract documents, equipment list, and drawings.

END OF SECTION 274000

STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE

PROCUREMENT DOCUMENTS

THE UNIVERSITY OF ALABAMA
TUSCALOOSA, ALABAMA

DAVIS ARCHITECTS PROJECT #3665.10 / UA PROJECT #085-12-102

SEPTEMBER 13, 2012

PROJECT TEAM

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IRONDALE, ALABAMA
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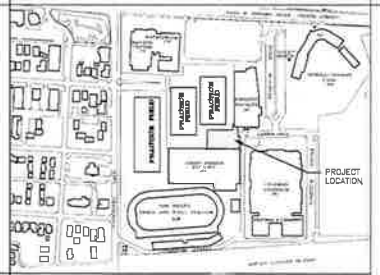
ATTN: S.J. SAJJADIEH

VICINITY MAP



MATERIALS LEGEND

- CONCRETE
- BRICK
- CONCRETE MASONRY UNIT
- METAL
- RIGID INSULATION
- BATT INSULATION
- WOOD BLOCKING FRAMING
- PLYWOOD
- FINISH WOOD
- GLASS
- GYPSUM BOARD
- CARPET

DRAWING SYMBOLS

- SECTION NUMBER / SHEET NUMBER
- ELEVATION NUMBER / SHEET NUMBER
- DETAIL NUMBER / SHEET NUMBER
- ROOM NUMBER
- EJ-W-1 EXPANSION JOINT TYPE
- CEILING HEIGHT
- CEILING TYPE
- A1 PARTITION TYPE
- CJ CONTROL JOINT

ALTERNATES

ALTERNATE #1 = FOUR 70" PORTRAIT MONITORS ON NORTH WALL

LIST OF DRAWINGS

GENERAL
T0.01 TITLE SHEET

ARCHITECTURAL
A2.21 FIRST LEVEL FURNITURE & EQUIPMENT PLAN
A2.22 MEZZANINE LEVEL FURNITURE & EQUIPMENT PLAN
A3.50 BUILDING SECTIONS (FOR REFERENCE ONLY)
A3.81 INTERIOR WALL SECTIONS & DETAILS (FOR REFERENCE ONLY)
A5.01 INTERIOR ELEVATIONS (FOR REFERENCE ONLY)
A5.02 INTERIOR ELEVATIONS (FOR REFERENCE ONLY)
A5.03 INTERIOR ELEVATIONS (FOR REFERENCE ONLY)
A5.04 INTERIOR ELEVATIONS (FOR REFERENCE ONLY)

AUDIO VISUAL
AV-200 A/V CONDUIT & POWER LEGEND, NOTES, & DETAILS
AV-201 FIRST LEVEL FLOOR PLAN – A/V DEVICE PLACEMENT & INFRASTRUCTURE
AV-202 FIRST LEVEL RCP – A/V DEVICE PLACEMENT & INFRASTRUCTURE
AV-203 SECOND LEVEL FLOOR PLAN – A/V DEVICE PLACEMENT & INFRASTRUCTURE
AV-204 SECOND LEVEL RCP – A/V DEVICE PLACEMENT & INFRASTRUCTURE
AV-300 A/V ONE LINE LEGEND AND NOTES
AV-301 A/V ONE LINE BLOCK DRAWINGS
AV-302 A/V ONE LINE BLOCK DRAWINGS
AV-303 A/V ONE LINE BLOCK DRAWINGS
AV-304 A/V ONE LINE BLOCK DRAWINGS
AV-305 A/V ONE LINE BLOCK DRAWINGS
AV-306 A/V ONE LINE BLOCK DRAWINGS
AV-307 A/V ONE LINE BLOCK DRAWINGS
AV-308 A/V ONE LINE BLOCK DRAWINGS
AV-400 STANDARD SIGNAL WIRING DETAILS
AV-401 STANDARD SIGNAL WIRING DETAILS
AV-801 A/V SYSTEM RACK ELEVATIONS
AV-801 CRESTRON DOCKING STATION & CONTROL PANEL DETAILS
AV-802 WALL PLATE DETAILS
AV-803 HUBBELL RACO NVSA6XM SIFER IV BOX DETAILS
AV-804 TV DETAILS

STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
THE UNIVERSITY OF ALABAMA | TUSCALOOSA | ALABAMA
UA PROJECT #085-12-102

TITLE SHEET

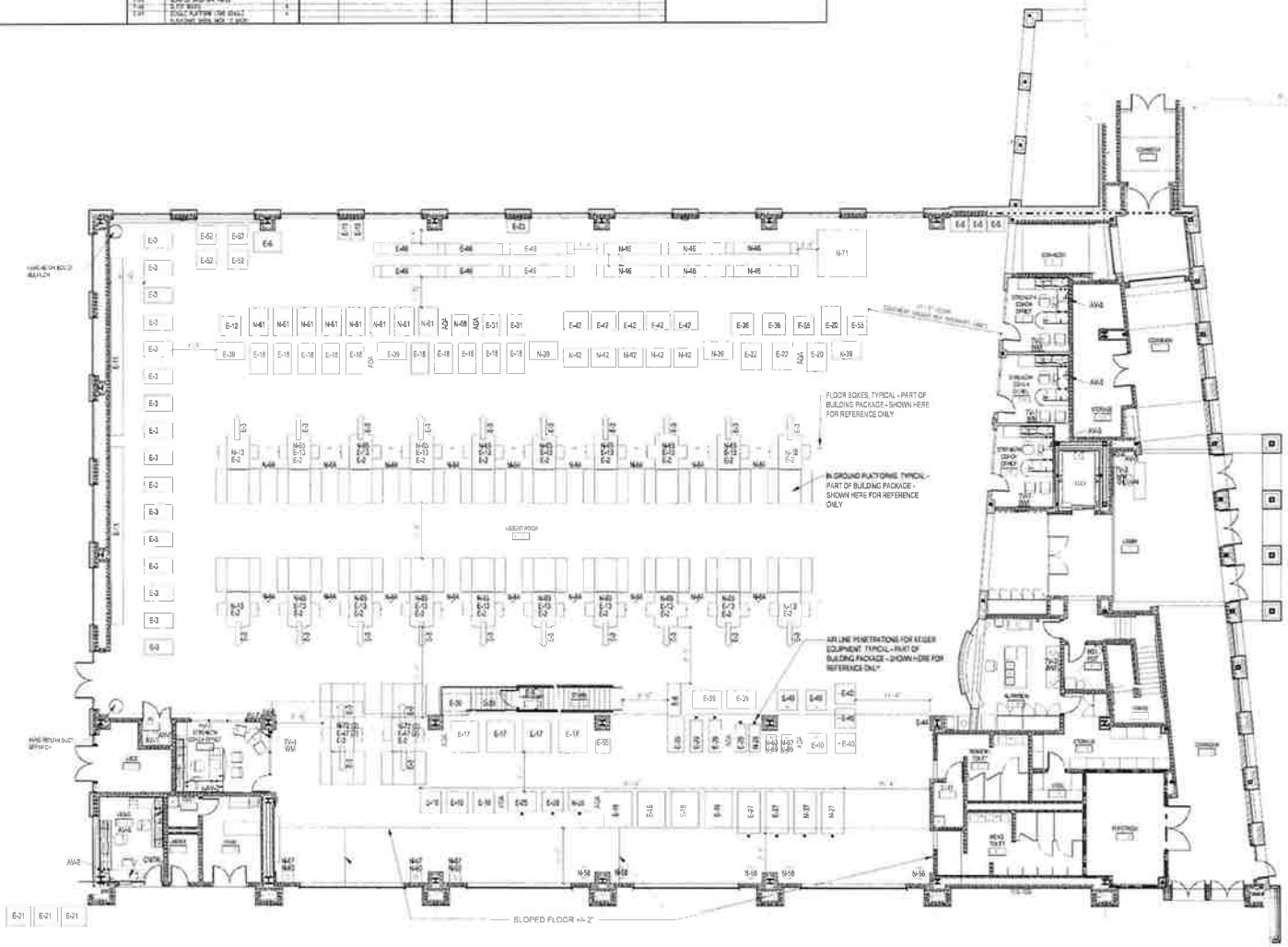
SEPTEMBER 13, 2012

DWB | JHH | GAC

3665.10

T0.1

FURNITURE & EQUIPMENT LEGEND


FLOOR BOXES, TYPICAL - PART OF BUILDING PACKAGE - SHOWN HERE FOR REFERENCE ONLY
IN GROUND FLOORING, TYPICAL - PART OF BUILDING PACKAGE - SHOWN HERE FOR REFERENCE ONLY
AIR LINE PENETRATIONS FOR KEISER EQUIPMENT, TYPICAL - PART OF BUILDING PACKAGE - SHOWN HERE FOR REFERENCE ONLY
SLOPED FLOOR +/- 2"

FIRST LEVEL FURNITURE AND EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"

PROJECT NORTH

0 8' 16' 32' 48'

STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
THE UNIVERSITY OF ALABAMA | TUSCALOOSA | ALABAMA
UA PROJECT # 085-12-102

RAMA ARCHITECTS

FURNITURE AND EQUIPMENT PLAN

SEPTEMBER 13, 2012

GFF | SSP | GAC

3665.10

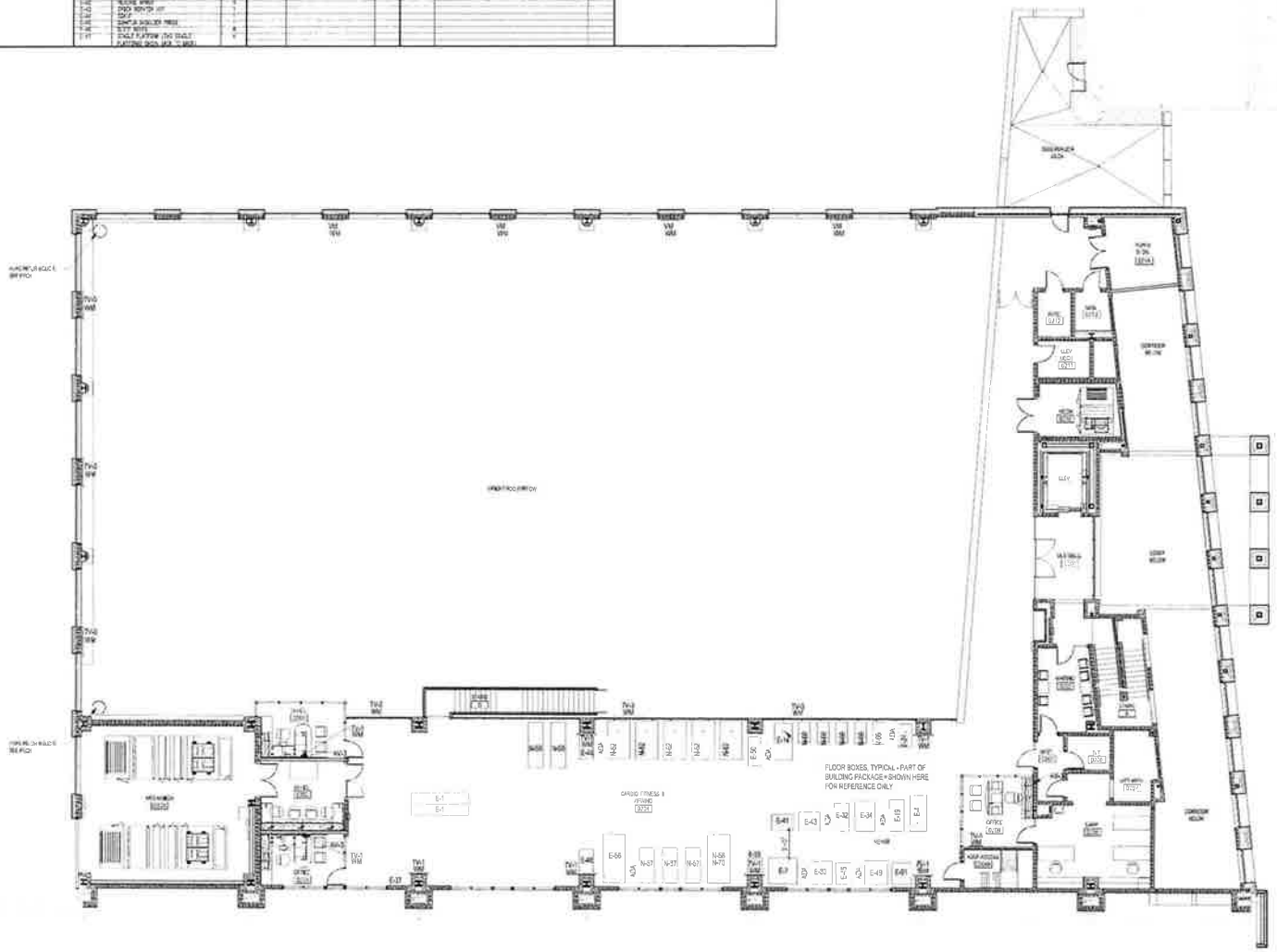
A2.21

FURNITURE & EQUIPMENT LEGEND

EQUIPMENT	EXISTING WEIGHT ROOM EQUIPMENT	NEW WEIGHT ROOM EQUIPMENT	GENERAL NOTES
			1. ALL A/V (INCLUDING LCD MONITORS), FURNITURE, & WEIGHT ROOM EQUIPMENT SHALL BE COORDINATED WITH OWNER, ARCHITECT, AND AV CONTRACTOR PRIOR TO INSTALLATION.
			2. ALL WOOD CASEGOODS/BENCHES FURNITURE IS OWNER PROVIDED BY AA CASUALTY SHOP.

SYMBOLS

5 — 120 V, 15A DUPLEX OUTLET



PROJECT NORTH

MEZZANINE LEVEL FURNITURE AND EQUIPMENT PLAN
SCALE: 1/8" = 1'-0"

0 8' 16' 32' 48'

STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
THE UNIVERSITY OF ALABAMA | TUSCALOOSA | ALABAMA
UA PROJECT # 055-12-102

DAVIS ARCHITECTS

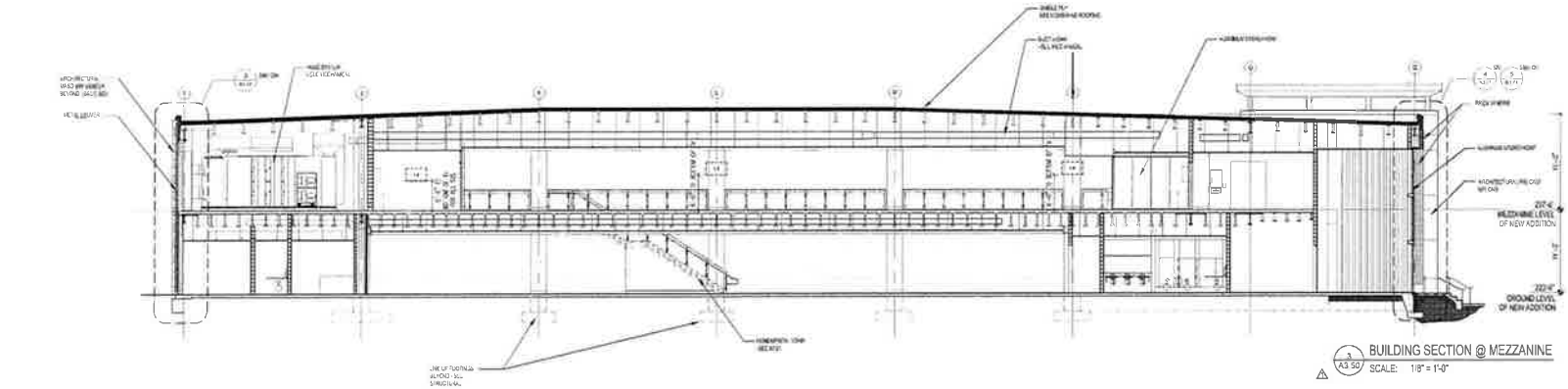
FURNITURE AND EQUIPMENT PLAN

SEPTEMBER 13, 2012

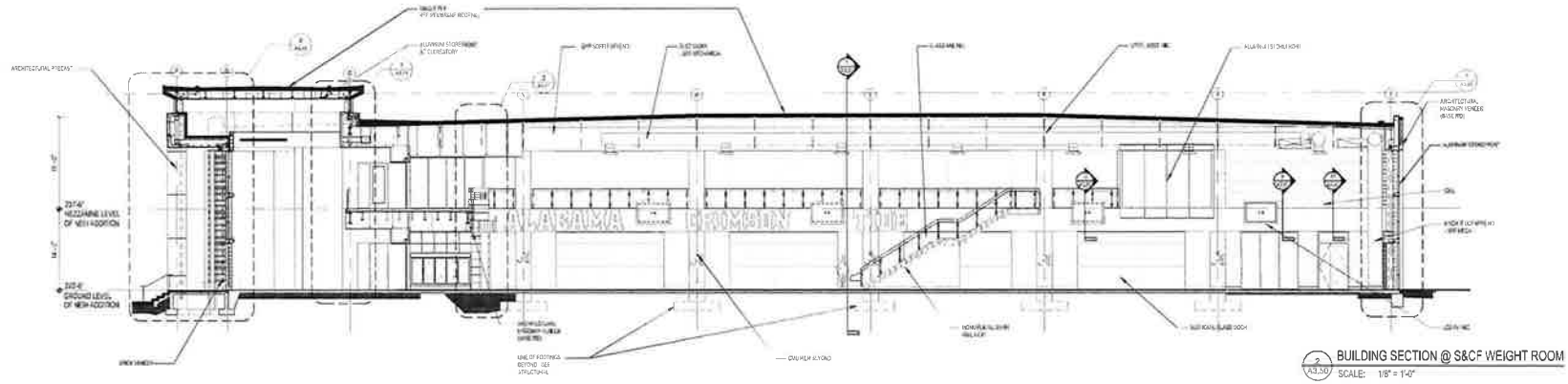
GFF | SSP | GAC

3665.10

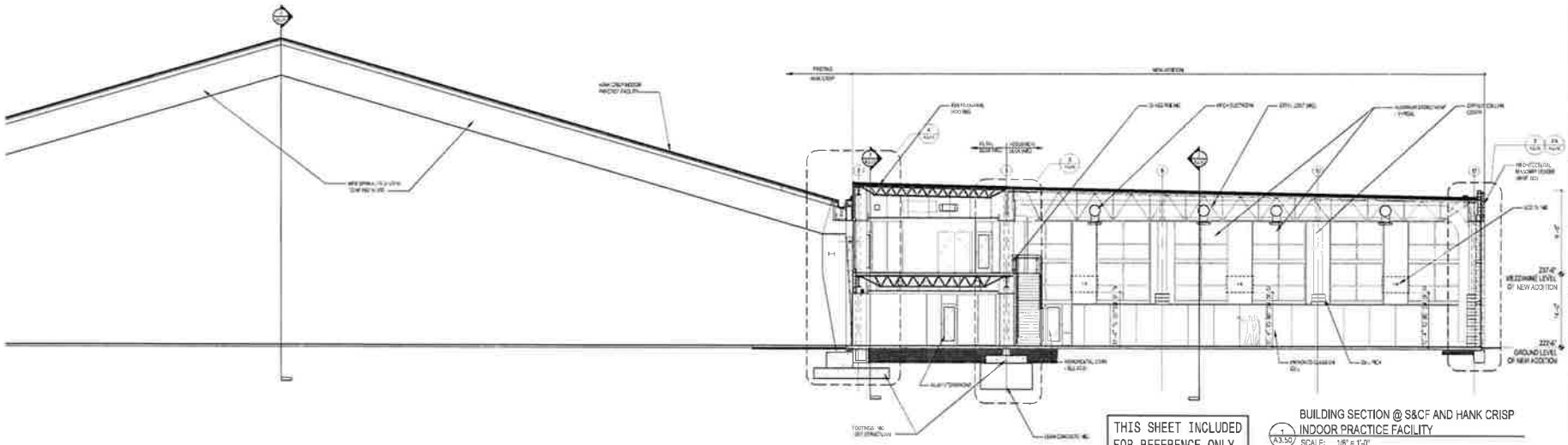
A2.22



3 / A3.50 BUILDING SECTION @ MEZZANINE
SCALE: 1/8" = 1'-0"



2 / A3.50 BUILDING SECTION @ S&CF WEIGHT ROOM
SCALE: 1/8" = 1'-0"



THIS SHEET INCLUDED FOR REFERENCE ONLY

1 / A3.50 BUILDING SECTION @ S&CF AND HANK CRISP INDOOR PRACTICE FACILITY
SCALE: 1/8" = 1'-0"

STRENGTH & CONDITIONING FACILITY
&
HANK CRISP DEFERRED MAINTENANCE
THE UNIVERSITY OF ALABAMA; TUSCALOOSA, ALABAMA
UA PROJECT # 086-12-046/086-11-086; DC NUMBER 2012229

DAVIS ARCHITECTS

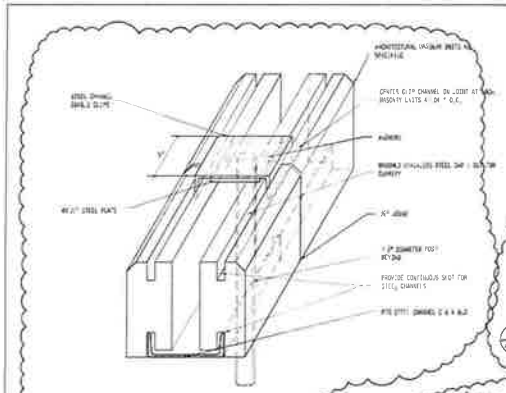
BUILDING SECTIONS

JULY 30, 2012

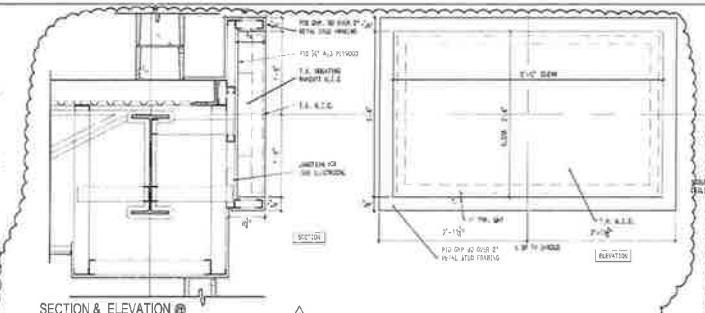
DWB | JHH | GAC

3665.06

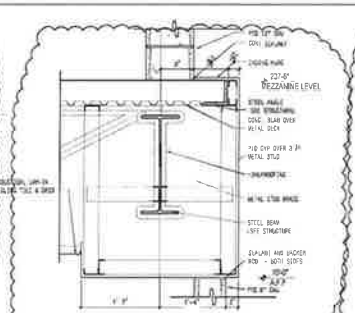
A3.50



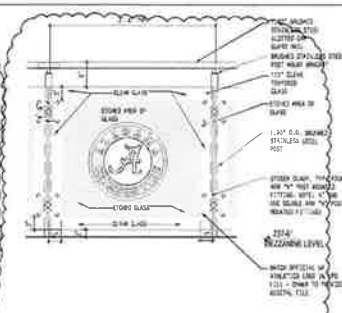
14 A3.81 AXON DETAIL
SCALE: N.T.S.



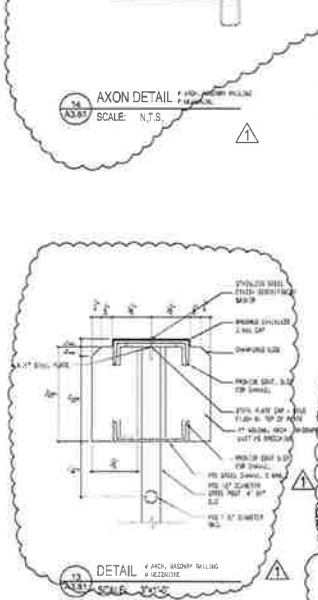
10 A3.81 SECTION & ELEVATION @ GYP. BD. BULKHEAD/ TV SHROUD
SCALE: 1"=1'-0"



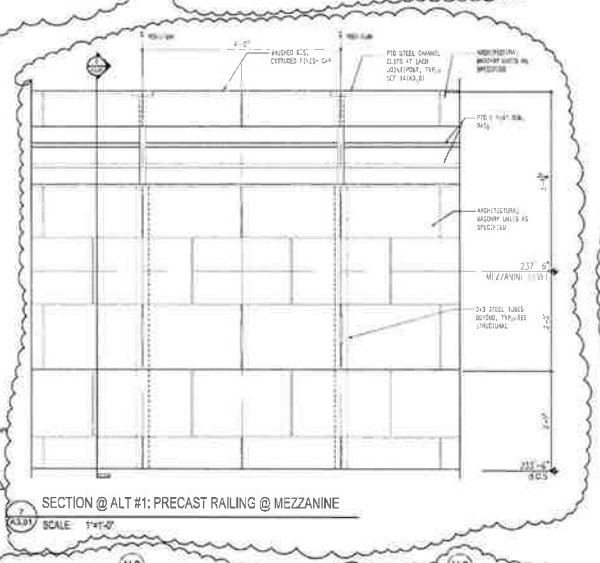
9 A3.81 SECTION GYP. BD. BULKHEAD
SCALE: 1"=1'-0"



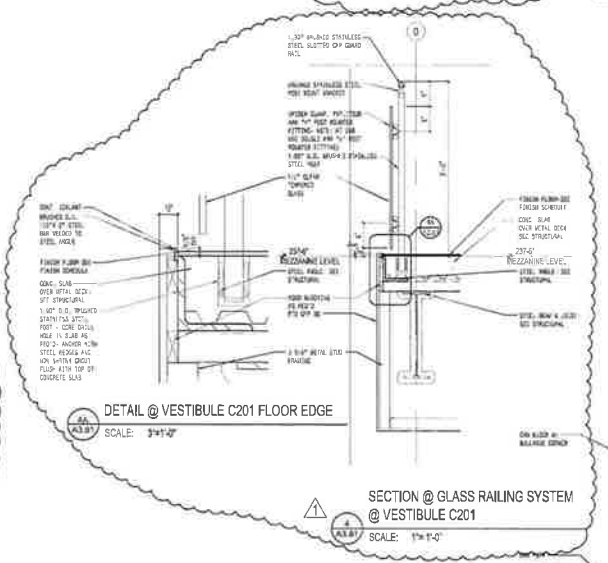
6B A3.81 ELEVATION @ GLASS RAILING SYSTEM W/ LOGO
SCALE: 1"=1'-0"



13 A3.81 DETAIL
SCALE: 3"=1'-0"

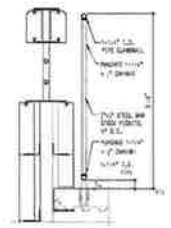


7 A3.81 SECTION @ ALT #1: PRECAST RAILING @ MEZZANINE
SCALE: 1"=1'-0"

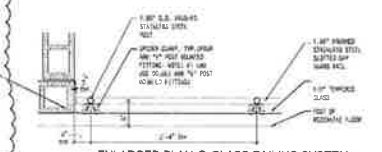


6A A3.81 DETAIL @ VESTIBULE C201 FLOOR EDGE
SCALE: 3"=1'-0"

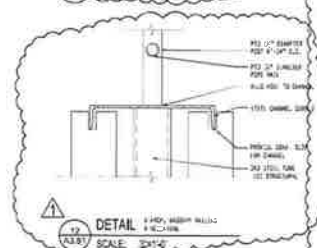
4 A3.81 SECTION @ GLASS RAILING SYSTEM @ VESTIBULE C201
SCALE: 1"=1'-0"



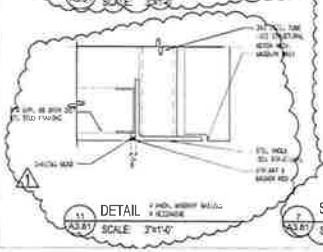
5 A3.81 SECTION @ GATE
SCALE: 1"=1'-0"



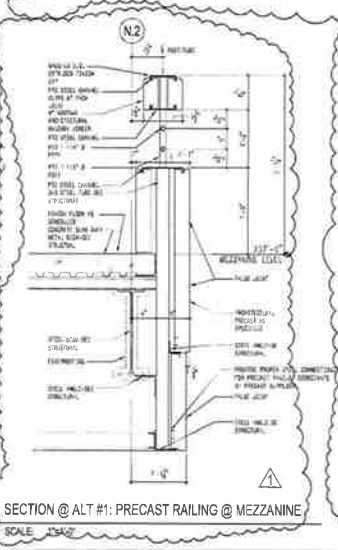
3 A3.81 ENLARGED PLAN @ GLASS RAILING SYSTEM
SCALE: 1"=1'-0"



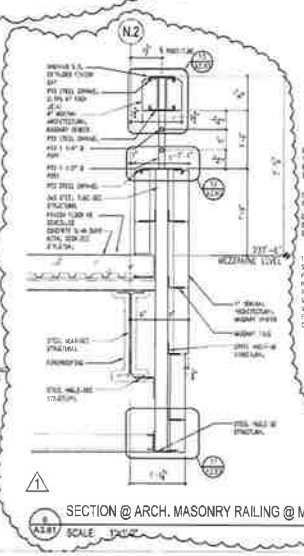
12 A3.81 DETAIL
SCALE: 3"=1'-0"



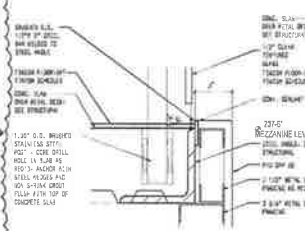
11 A3.81 DETAIL
SCALE: 3"=1'-0"



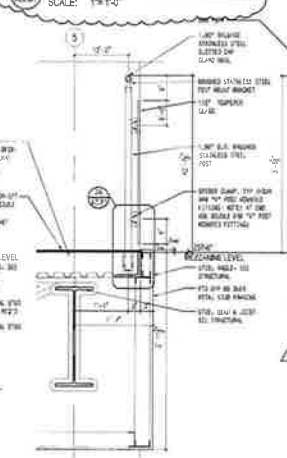
8 A3.81 SECTION @ ALT #1: PRECAST RAILING @ MEZZANINE
SCALE: 1"=1'-0"



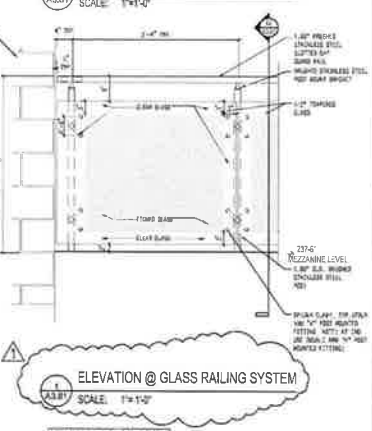
6 A3.81 SECTION @ ARCH. MASONRY RAILING @ MEZZANINE
SCALE: 1"=1'-0"



24 A3.81 DETAIL @ MEZZANINE FLOOR EDGE
SCALE: 3"=1'-0"



2 A3.81 SECTION @ GLASS RAILING SYSTEM
SCALE: 1"= 1'-0"



1 A3.81 ELEVATION @ GLASS RAILING SYSTEM
SCALE: 1"=1'-0"

THIS SHEET INCLUDED FOR REFERENCE ONLY

STRENGTH & CONDITIONING FACILITY
&
HANK CRISP DEFERRED MAINTENANCE
THE UNIVERSITY OF ALABAMA ; TUSCALOOSA , ALABAMA
U.A. PROJECT # 086-12-046/086-11-086 ; BC NUMBER 2012229

ADDENDUM #2 8.17.12

DAVIS ARCHITECTS

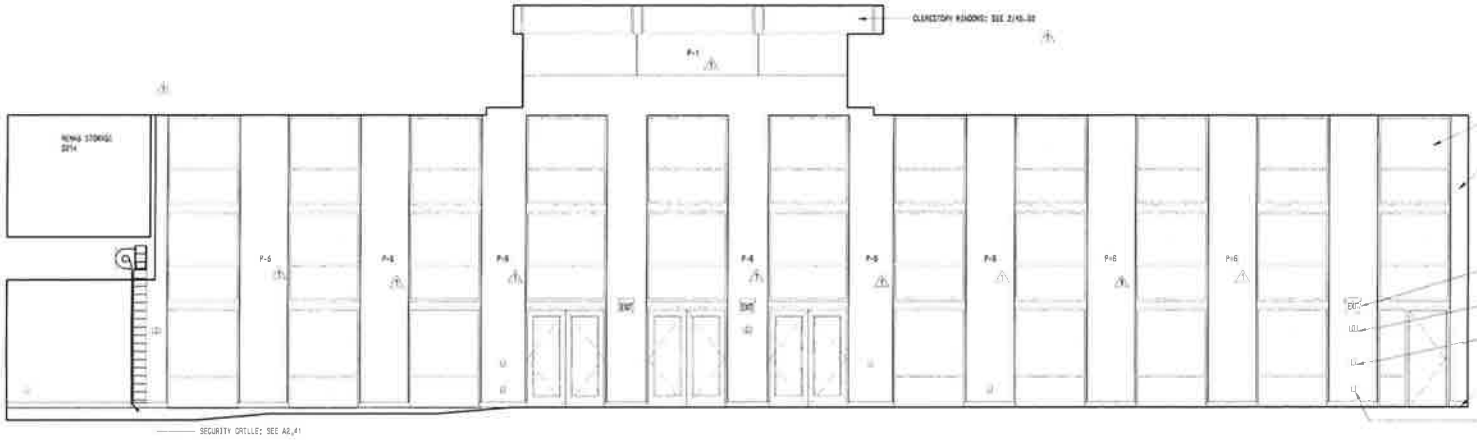
INTERIOR WALL SECTIONS AND DETAILS

JULY 30, 2012

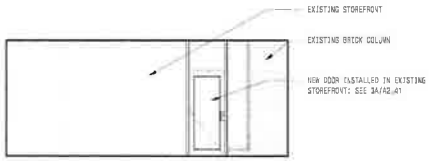
ART | JHH | GAC

3665.06

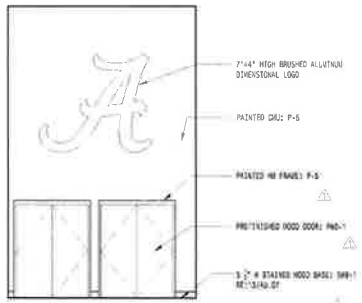
A3.81


CLERESTORY WINDOWS: SEE 2/A5.02
ALUMINUM STOREFRONT
PAINTED CMU: P-6
WALL MOUNTED EXIT LIGHT; SEE ELECTRICAL
FIRE HORN: SEE ELECTRICAL
FIRE PULL STATION: SEE ELECTRICAL
5 ½" H STAINED WOOD BASE: SMB-1 RE: 13/A5.07
DUPLEX OUTLET: SEE ELECTRICAL
SECURITY GRILLE: SEE A2.41

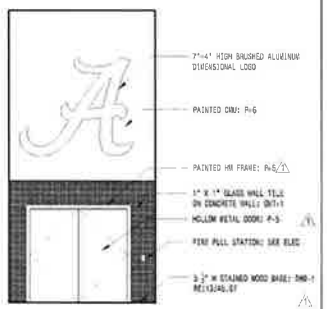
3 A5.01 EAST ELEVATION @ CORRIDORS C101 & C102
SCALE: 1/4" = 1'-0"



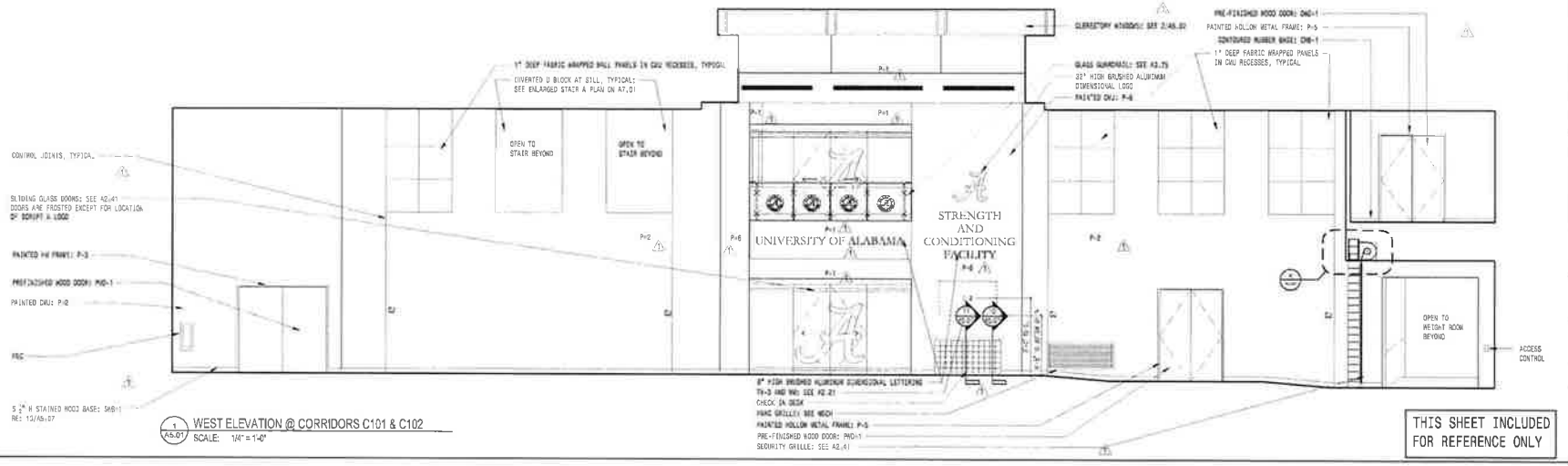
4 A5.01 WEST ELEVATION @ OFFICE 2023
SCALE: 1/4" = 1'-0"


7"=4" HIGH BRUSHED ALUMINUM DIMENSIONAL LOGO
PAINTED CMU: P-5
PAINTED HM FRAME: P-5
PREFINISHED WOOD DOOR: PWD-1
5 ½" H STAINED WOOD BASE: SMB-1 RE: 13/A5.07

3 A5.01 SOUTH ELEVATION @ CORRIDOR C101
SCALE: 1/4" = 1'-0"


7"=4" HIGH BRUSHED ALUMINUM DIMENSIONAL LOGO
PAINTED CMU: P-6
PAINTED HM FRAME: P-5
1" X 1" GLASS MAT TILE ON CONCRETE WALL: GMT-1
HOLLOW METAL DOOR: P-5
FIRE PULL STATION: SEE ELEC
5 ½" H STAINED WOOD BASE: SMB-1 RE:13/A5.07

2 A5.01 NORTH ELEVATION @ CORRIDOR C102
SCALE: 1/4" = 1'-0"


CLERESTORY WINDOWS: SEE 2/A5.02
PRE-FINISHED WOOD DOOR: PWD-1
PAINTED HOLLOW METAL FRAME: P-5
CONTOURED RUBBER BASE: CRB-1
1" DEEP FABRIC WRAPPED PANELS IN CMU RECESSES, TYPICAL
1" DEEP FABRIC WRAPPED BAFFLE PANELS IN CMU RECESSES, TYPICAL
INVERTED U BLOCK AT SILL, TYPICAL; SEE ENLARGED STAIR A PLAN ON A7.01
GLASS GUARDRAIL: SEE A2.75
32" HIGH BRUSHED ALUMINUM DIMENSIONAL LOGO
PAINTED CMU: P-6
OPEN TO STAIR BEYOND
OPEN TO STAIR BEYOND
CONTROL JOINTS, TYPICAL
SLIDING GLASS DOORS: SEE A2.41 DOORS ARE FROSTED EXCEPT FOR LOCATION OF SCRIPT A LOGO
PAINTED HM FRAME: P-5
PREFINISHED WOOD DOOR: PWD-1
PAINTED CMU: P-2
FRP
5 ½" H STAINED WOOD BASE: SMB-1 RE: 13/A5.07
UNIVERSITY OF ALABAMA
STRENGTH AND CONDITIONING FACILITY
OPEN TO WEIGHT ROOM BEYOND
ACCESS CONTROL
8" HIGH BRUSHED ALUMINUM DIMENSIONAL LETTERING
TV-3 AND WAP: SEE A2.21
CHECK IN DESK
HVAC GRILLES: SEE MECH
PAINTED HOLLOW METAL FRAME: P-5
PRE-FINISHED WOOD DOOR: PWD-1
SECURITY GRILLE: SEE A2.41

1 A5.01 WEST ELEVATION @ CORRIDORS C101 & C102
SCALE: 1/4" = 1'-0"

THIS SHEET INCLUDED FOR REFERENCE ONLY

STRENGTH & CONDITIONING FACILITY
&
HANK CRISP DEFERRED MAINTENANCE
THE UNIVERSITY OF ALABAMA : TUSCALOOSA , ALABAMA
UA PROJECT # 086-12-046-086-11-086; BC NUMBER 2012229

GARZA ARCHITECTS

INTERIOR ELEVATIONS

JULY 30, 2012

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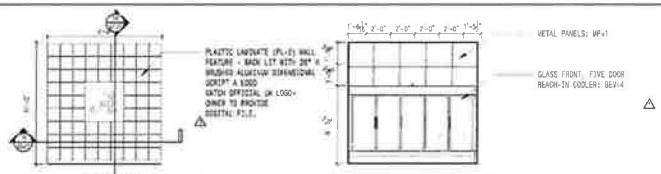
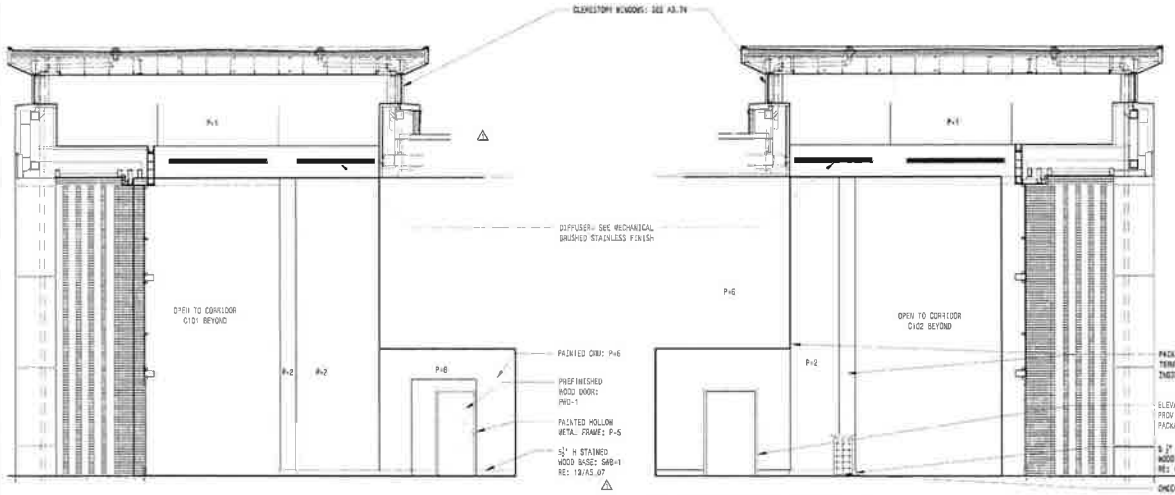
3665.06

A5.01


PLASTIC LAMINATE (PL-1) WALL FEATURE - BACK LIT WITH 26" H BRUSHED ALUMINUM DIMENSIONAL LOGO
METAL PANELS: MP-1
GLASS FRONT, FIVE DOOR REACH-IN COOLER: BEV-4

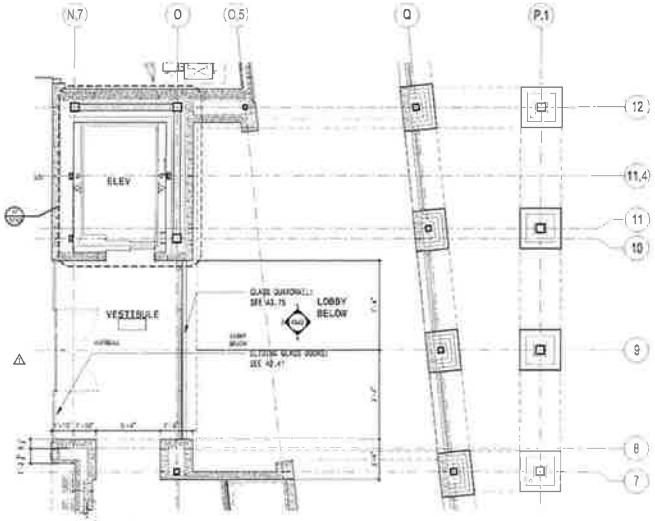
8 A5.02 WEST ELEVATION @ ENTRY
SCALE 1/4" = 1'-0"

7 A5.02 EAST ELEVATION @ ENTRY
SCALE: 1/4" = 1'-0"


CLERESTORY WINDOWS: SEE A3.74
DIFFUSER: SEE MECHANICAL
BRUSHED STAINLESS FINISH
OPEN TO CORRIDOR C101 BEYOND
OPEN TO CORRIDOR C102 BEYOND
PAINTED GWB: P-6
PREFINISHED WOOD DOOR: PWD-1
PAINTED HOLLOW METAL FRAME: P-5
5½" H STAINED WOOD BASE: SWB-1
RE: 12/A5.07
PAINTED GWB: P-2 TERMINATES AT ENCLOSURE CORNER
ELEVATOR HOISTWAY: PROVIDED IN PREVIOUS PACKAGE
5 ½" H STAINED WOOD BASE: SWB-1
RE: 12/A5.07
CHECK-IN DESK: SEE A5.07

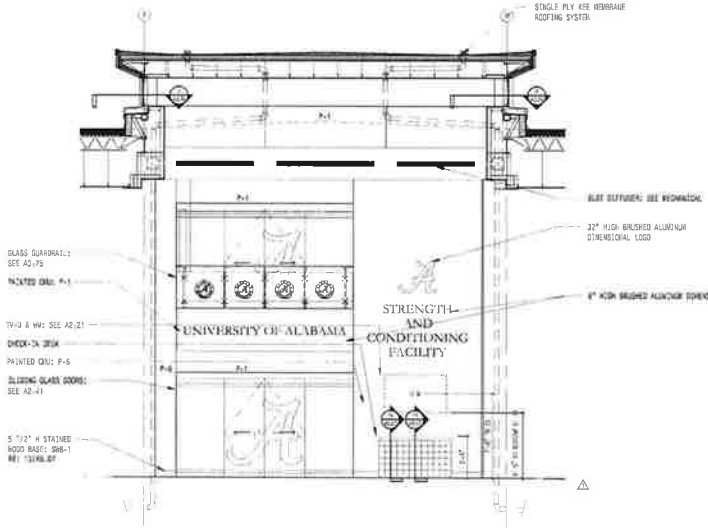
6 A5.02 SOUTH ELEVATION @ LOBBY 0113
SCALE: 1/4" = 1'-0"

5 A5.02 NORTH ELEVATION @ LOBBY 0113
SCALE: 1/4" = 1'-0"



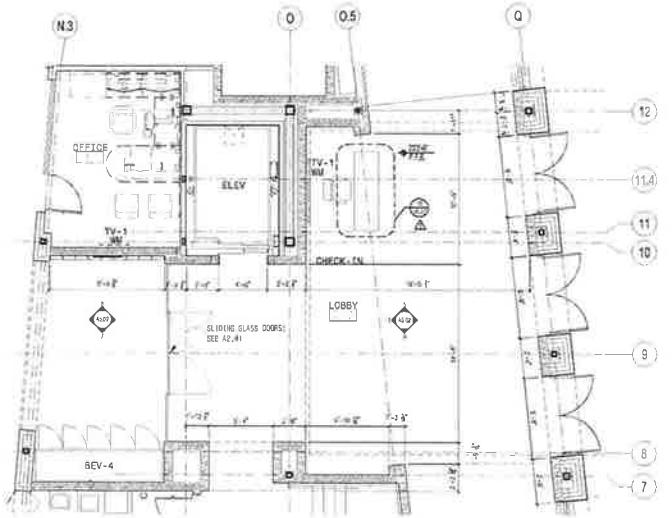
4 A5.02 ENLARGED PLAN @ MEZZANINE VESTIBULE C201
SCALE: 1/4" = 1'-0"

PROJECT NORTH


SINGLE PLY KEE MEMBRANE ROOFING SYSTEM
ELEV DIFFUSER: SEE MECHANICAL
32" HIGH BRUSHED ALUMINUM DIMENSIONAL LOGO
8" HIGH BRUSHED ALUMINUM DIMENSIONAL LETTERING
GLASS GUARDRAIL: SEE A3.75
PAINTED GWB: P-1
TV-1 & WM: SEE A2.21
CHECK-IN DESK
PAINTED GWB: P-5
SLIDING GLASS DOORS: SEE A2.41
5 7/32" H STAINED WOOD BASE: SWB-1
RE: 12/A5.07
UNIVERSITY OF ALABAMA
STRENGTH AND CONDITIONING FACILITY

3 A5.02 WEST SECTION ELEVATION @ LOBBY 0113
SCALE: 1/4"=1'-0"

2 A5.02 NOT USED
SCALE: 1/4"= 1'-0"



PROJECT NORTH

1 A5.02 ENLARGED PLAN @ LOBBY 0113
SCALE: 1/4" = 1'-0"

THIS SHEET INCLUDED FOR REFERENCE ONLY

STRENGTH & CONDITIONING FACILITY
&
HANK CRISP DEFERRED MAINTENANCE
THE UNIVERSITY OF ALABAMA, TUSCALOOSA, ALABAMA
UA PROJECT # 086-12-046/086-11-086, BC NUMBER 2012229

DAVIS ARCHITECTS

INTERIOR ELEVATIONS

JULY 30, 2012

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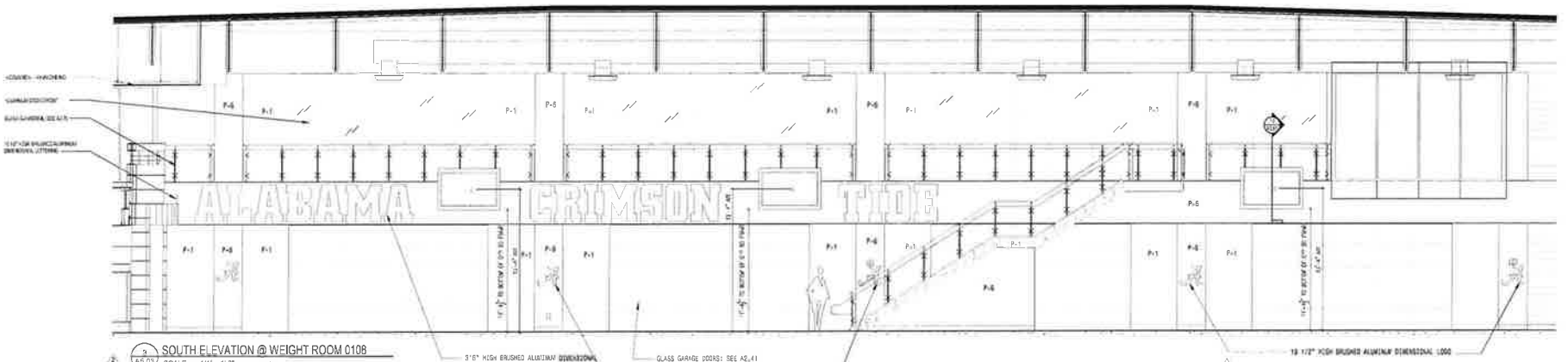
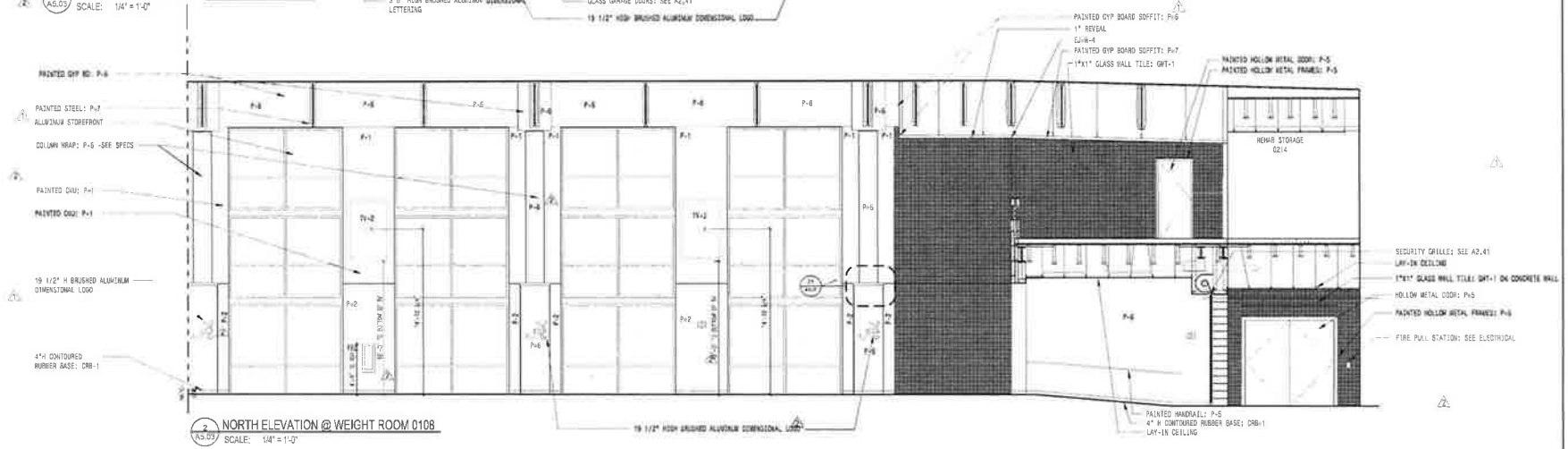
3665.06

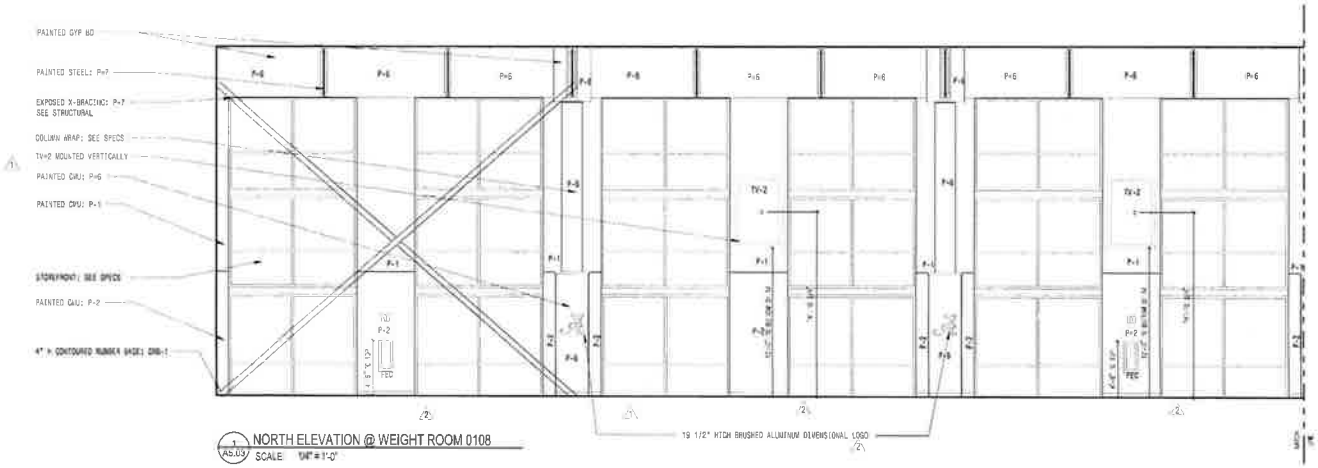
A5.02



2 A5.03 SOUTH ELEVATION @ WEIGHT ROOM 0108
SCALE: 1/4" = 1'-0"



2 A5.03 NORTH ELEVATION @ WEIGHT ROOM 0108
SCALE: 1/4" = 1'-0"



1 A5.03 NORTH ELEVATION @ WEIGHT ROOM 0108
SCALE: 1/4" = 1'-0"

THIS SHEET INCLUDED FOR REFERENCE ONLY

STATE OF ALABAMA
2413
REGISTERED ARCHITECT

STRENGTH & CONDITIONING FACILITY
&
HANK CRISP DEFERRED MAINTENANCE
THE UNIVERSITY OF ALABAMA : TUSCALOOSA : ALABAMA
UA PROJECT #080-12-046/086-11-086 : BC NUMBER 2012229

DAVIS ARCHITECTS

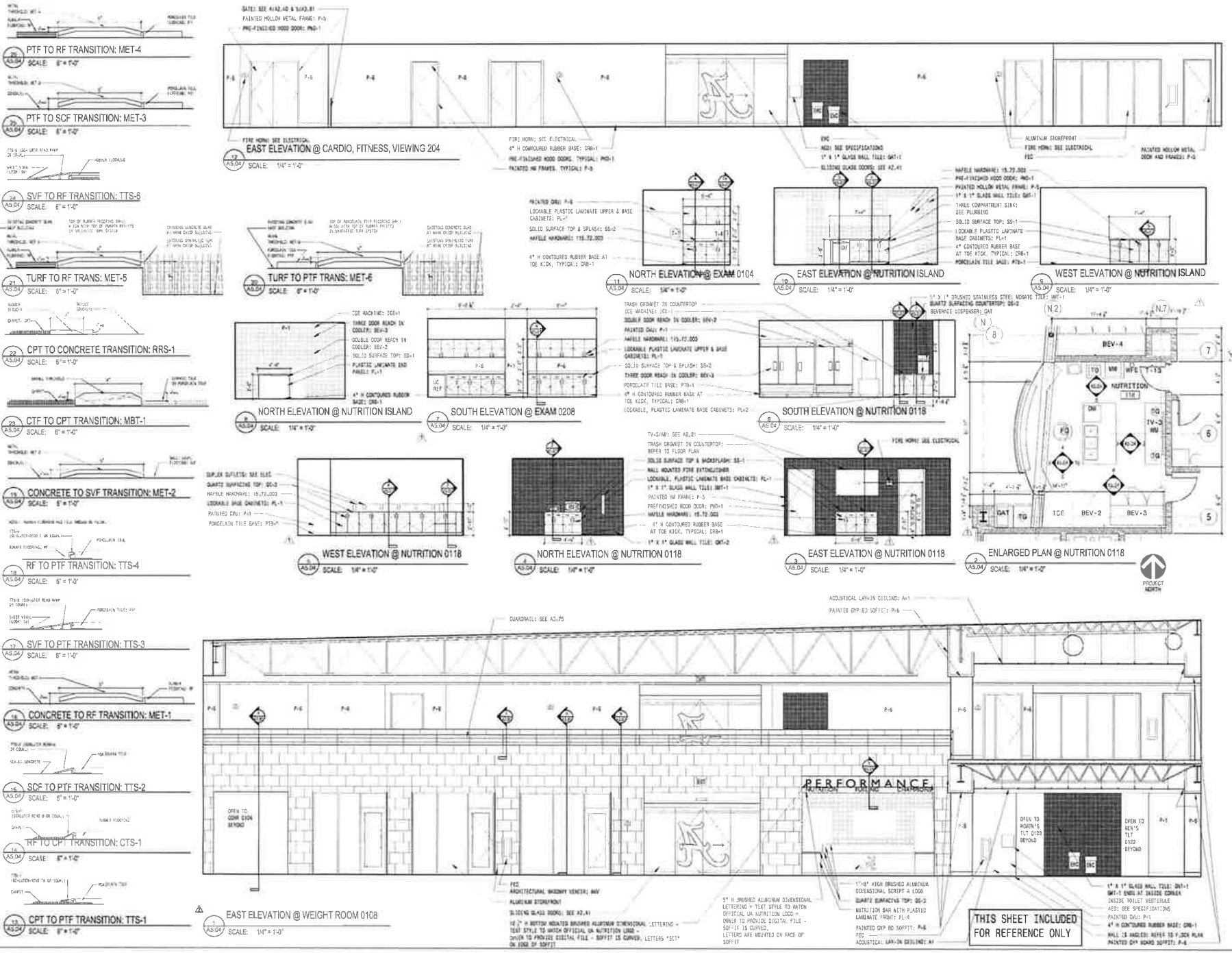
INTERIOR ELEVATIONS

JULY 30, 2012

SSP | JHH | GAC

3665.06

A5.03


PTF TO RF TRANSITION: MET-4
PTF TO SCF TRANSITION: MET-3
SVF TO RF TRANSITION: TTS-6
TURF TO RF TRANS: MET-5
TURF TO PTF TRANS: MET-6
CPT TO CONCRETE TRANSITION: RRS-1
CTF TO CPT TRANSITION: MBT-1
CONCRETE TO SVF TRANSITION: MET-2
RF TO PTF TRANSITION: TTS-4
SVF TO PTF TRANSITION: TTS-3
CONCRETE TO RF TRANSITION: MET-1
SCF TO PTF TRANSITION: TTS-2
RF TO CPT TRANSITION: CTS-1
CPT TO PTF TRANSITION: TTS-1
EAST ELEVATION @ CARDIO, FITNESS, VIEWING 204
NORTH ELEVATION @ EXAM 0104
EAST ELEVATION @ NUTRITION ISLAND
WEST ELEVATION @ NUTRITION ISLAND
NORTH ELEVATION @ NUTRITION ISLAND
SOUTH ELEVATION @ EXAM 0208
SOUTH ELEVATION @ NUTRITION 0118
WEST ELEVATION @ NUTRITION 0118
NORTH ELEVATION @ NUTRITION 0118
EAST ELEVATION @ NUTRITION 0118
ENLARGED PLAN @ NUTRITION 0118
EAST ELEVATION @ WEIGHT ROOM 0108
PERFORMANCE
NUTRITION
THIS SHEET INCLUDED FOR REFERENCE ONLY

STRENGTH & CONDITIONING FACILITY
&
HANK CRISP DEFERRED MAINTENANCE
THE UNIVERSITY OF ALABAMA | TUSCALOOSA, ALABAMA
I.A. PROJECT # 086-12-046/086-11-086 | BC NUMBER 2012229

DAVIS ARCHITECTS

INTERIOR ELEVATIONS

JULY 30, 2012

SSP | JHH | GAC

3665.06

A5.04

AUDIOVISUAL CONDUIT/ELECTRICAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AN AC POWER SYSTEM FOR THE AUDIOVISUAL SYSTEM. THE AC POWER SYSTEM MAY INCLUDE ISOLATION TRANSFORMERS, BREAKER PANELS, AND DISTRIBUTION AS NOTED. REFER TO ELECTRICAL DRAWINGS
2. EACH CIRCUIT SHALL BE WIRED AS A 3-WIRE SINGLE PHASE 120 VOLT, WITH A SEPARATE HOT, NEUTRAL, AND GROUND CONDUCTOR PER RECEPTACLE.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT AND ALL OTHER ENCLOSURES, AS CALLED OUT IN THE AUDIOVISUAL DEVICE LEGEND,AND DRAWINGS UNLESS EXPLICITLY NOTED OTHERWISE. ALL CONDUIT SHALL COMPLY WITH NEC REQUIREMENTS FOR CONDUIT INSTALLATION. CROSS REFERENCE AND COORDINATE WITH THE ELECTRICAL DRAWINGS.
4. ALL CONDUIT SHOWN IS FOR AUDIO/VISUAL SYSTEM SIGNAL CABLE AND IS NOT RELATED TO ANY CONDUIT FOR AC POWER. CONDUIT QUANTITIES AND SIZES ARE SPECIFIED BASED ON THE SYSTEM REQUIREMENTS. DO NOT COMBINE MULTIPLE PARALLEL RUNS INTO LARGER CONDUITS.
5. THE CONDUIT PATHS OF THE SOUND, COMMUNICATION AND VIDEO SYSTEMS SHOULD NOT BE ROUTED NEAR POWER TRANSFORMERS, SCR DIMMERS, POWER CONTROL EQUIPMENT, HEAVY CURRENT SWITCHGEAR, FLUORESCENT BALLAST, MOTORS OR ANY OTHER EQUIPMENT THAT MAY BE A SOURCE OF INTERFERENCE
6. ALL INTERIOR JUNCTION BOXES SHALL BE NEMA 1 RATED UNLESS OTHERWISE SPECIFIED AND SHALL BE PROVIDED WITH COVERS BY THE ELECTRICAL CONTRACTOR.
7. ALL CONDUIT CONNECTIONS SHALL BE FURNISHED WITH NYLON BUSHINGS TO PREVENT DAMAGE TO CABLES FROM BURRED OR UNEVENLY CUT CONDUIT.
8. ALL JUNCTION BOXES ARE TO BE GIVEN A UNIQUE IDENTIFYING NUMBER THAT SHALL BE LEGIBLY WRITTEN ON THE INSIDE COVER WITH PERMANENT, NON-FADING, WEATHERPROOF INK.
9. KEEP 90° BENDS TO A MINIMUM. THE CONDUIT SYSTEM SHALL NOT HAVE MORE THAN THREE 90° BENDS OR THEIR EQUIVALENT BETWEEN PULL BOXES
10. ALL CONDUIT RUNS IN EXCESS OF 100 FEET SHALL HAVE INTERMEDIATE JUNCTION BOXES EVERY 100 FEET OR THREE BENDS, WHICHEVER COMES FIRST.
11. ALL AUDIO/VISUAL SYSTEM RELATED JUNCTION BOXES SHALL REMAIN ACCESSIBLE AT ALL TIMES.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE NYLON PULL STRINGS IN ALL AV CONDUITS.
13. COMPLETED FLOOR POCKET INSTALLATION MUST BE INSTALLED FLUSH WITH FINISHED FLOOR SURFACE. COORDINATE INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
14. CONDUITS MUST ENTER THE FLOOR POCKET BACK BOX THRU THE BOTTOM OR THE LOWER 2&1/2 INCHES OF THE SIDE WALLS.
15. PROVIDE ADEQUATE COVER AND BRACING DURING CONCRETE POURING. TO PREVENT LEAKING AND/OR COLLAPSE OF THE BACK BOX. POUR CONCRETE COMPLETELY AROUND THE BACK BOX.
16. **NO FLEX CONDUIT IS TO BE USED IN THE AUDIOVISUAL SYSTEM UNLESS OTHERWISE NOTED.**
17. ALL CONDUITS CARRYING AUDIOVISUAL SIGNALS ARE NOT TO BE RUN PARALLEL TO POWER CONDUITS UNLESS THE SPACING EXCEEDS 2'0".
18. ALL CONDUITS TO BE 1" UNLESS OTHERWISE NOTED.
19. INSULATE AUDIOVISUAL EQUIPMENT ENCLOSURES FROM INCOMING METAL CONDUITS WITH PVC TO EMT CONNECTOR IN TOP OF ENCLOSURE OR OTHER APPROVED MEANS.
20. ALL PULL BOXES AND OUTLET BOXES SHALL BE AT LEAST 3-1/2" DEEP.
21. CAULK OR OTHERWISE SEAL ALL PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AND BARRIERS.
22. ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND ASSEMBLIES SHALL BE SEALED WITH FIRESTOP MATERIAL PER APPLICABLE CODE.
23. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR ALL 120VAC CONDUIT SIZING.
24. ELECTRICAL CONTRACTOR SHALL REFER TO OTHER DRAWINGS FOR NON-AUDIO/VISUAL SYSTEM RELATED ELECTRICAL INFORMATION FOR THESE AREAS. AUDIO/VISUAL SYSTEM DRAWINGS DO NOT CONTAIN ALL ROOM ELECTRICAL REQUIREMENTS.
25. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE ALL HIGH VOLTAGE DEVICES.
26. ALL POWER CIRCUITS SHALL BE 120VAC, 20 AMP DEDICATED CIRCUITS UNLESS OTHERWISE NOTED.
27. 120VAC POWER TO THE EQUIPMENT RACKS SHALL BE TERMINATED INSIDE THE RACKS TO AUDIO/VISUAL SYSTEM SUBCONTRACTOR-SUPPLIED ISOLATED GROUND PLUGMOLD PLUGSTRIPS OR ISOLATED GROUND QUAD CONVENIENCE OUTLETS.
28. CONDUIT WILL BE REQUIRED BETWEEN ANY AND ALL LOUDSPEAKERS UNLESS THE LOUDSPEAKERS ARE ASSOCIATED WITH AN ACCESSIBLE CEILING PLENUM.
29. ALL **CABLING INSTALLED AND FREE-RUN ABOVE FINISHED** CEILING SHALL BE SUPPORTED WITH J-HOOK CABLE **MANAGEMENT SYSTEM.** COORDINATE ANY **CAT5E/CAT6** CABLING COLORS WITH DATA/VOICE CONTRACTOR. **NO RED JACKETED CABLES** ARE PERMITTED.
30. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL INSTALLATION AND FINISH REQUIREMENTS WITHIN ITEMS OF MILLWORK OR CASEWORK.

AUDIOVISUAL CONDUIT/ELECTRICAL LEGEND AND ABBREVIATIONS

- XX XX — CEILING MOUNTED DEVICE SEE SCHEDULE
- XX XX — WALL MOUNTED DEVICE SEE SCHEDULE
- XX XX — CEILING MOUNTED DEVICE SEE SCHEDULE
- EMT CONDUIT CONCEALED IN WALLS AND CEILINGS MINIMUM 1" UNLESS NOTED
- CONDUIT CONCEALED IN SLAB OR GRADE MINIMUM 1" UNLESS NOTED
- XX — FLOOR MOUNTED DUPLEX RECEPTACLE
- XX — FLOOR MOUNTED QUAD RECEPTACLE
- XX — WALL MOUNTED DUPLEX RECEPTACLE
- XX — WALL MOUNTED QUAD RECEPTACLE
- XX — CEILING MOUNTED DUPLEX RECEPTACLE
- XX — CEILING MOUNTED QUAD RECEPTACLE

ABV	ABOVE
ACT	ACOUSTIC CEILING TILE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AV	AUDIO/ VIDEO
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
CLNG	CEILING
FB	FLOOR BOX
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EST	ESTIMATED
HGT	HEIGHT
IC	INTERCOM
ID	INSIDE DIAMETER
JBS	SPEAKER LEVEL JUNCTION BOX
JBV	VIDEO LEVEL JUNCTION BOX
JBM	MIC LEVEL JUNCTION BOX
JBL	LINE LEVEL JUNCTION BOX
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
VC	VOLUME CONTROL
WB	WALL BOX

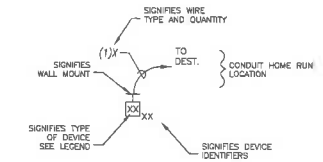
AUDIOVISUAL CONDUIT/ELECTRICAL DEVICE SCHEDULE

SYMBOL	DESCRIPTION	BOX TYPE/SIZE	MOUNTING HEIGHT	MOUNT	COVER
AN 01	ANTENNA JUNCTION BOX	8" X 8" X 4" JUNCTION BOX - HOFFMAN STYLE	ATTACH TO STRUCTURE	SURFACE	OVERSIZE
CP 01	CONTROL PANEL JUNCTION BOX - AV CONTRACTOR PROVIDED BOX	CRESTRON 8B-6X-DSW	48" A.F.F.	RECESS	DOCKING STATION
CP 02	CONTROL PANEL JUNCTION BOX	1-GANG JUNCTION BOX	48" A.F.F.	RECESS	1-GANG
CS XX	CEILING SUBWOOFER JUNCTION BOX	1-GANG JUNCTION BOX	18" A.F.C.	SURFACE	1-GANG
UBA 01	ANTENNA JUNCTION BOX	12"X12"X4" EQUAL TO HOFFMAN ASG SERIES	90" A.F.F.	SURFACE	OVERSIZE
UBE 01	CONTROL/LINE LEVEL JUNCTION BOX	WIRING TROUGH SIZED AS NEEDED	90" A.F.F.	SURFACE	OVERSIZE
UBS 01	SPEAKER JUNCTION BOX	WIRING TROUGH SIZED AS NEEDED	90" A.F.F.	SURFACE	OVERSIZE
UBV 01	SPEAKER JUNCTION BOX	WIRING TROUGH SIZED AS NEEDED	90" A.F.F.	SURFACE	OVERSIZE
S XX	CEILING SPEAKER JUNCTION BOX	1-GANG JUNCTION BOX	18" A.F.C.	SURFACE	1-GANG
S1 XX	CEILING SPEAKER JUNCTION BOX	1-GANG JUNCTION BOX	ATTACH TO STRUCTURE	SURFACE	1-GANG
S2 XX	CEILING SPEAKER JUNCTION BOX	1-GANG JUNCTION BOX	18" A.F.C.	SURFACE	1-GANG
SW XX	CEILING SUBWOOFER JUNCTION BOX	2-GANG JUNCTION BOX	ATTACH TO STRUCTURE	SURFACE	2-GANG
WB XX	TELEVISION/MONITOR WALL JUNCTION BOX	HUBBEL RACO NSAV62M TV BOX	REFER TO INTERIOR DESIGN ELEVATIONS	RECESS	NO COVER
WP XX	LOCAL HDMI INPUT PLATE	1-GANG JUNCTION BOX - 3 1/2" DEEP	18" A.F.F.	RECESS	1-GANG
WP 08	VIDEO ROOM INPUT PLATE	2-GANG LOW-VOLTAGE MUD RING	18" A.F.F.	RECESS	2-GANG
WP 09	LOCAL MP3 PLAYER INPUT PLATE	1-GANG JUNCTION BOX - 3 1/2" DEEP	48" A.F.F.	RECESS	1-GANG
WP 10	LOBBY INPUT PLATE	2-GANG LOW-VOLTAGE MUD RING	18" A.F.F.	RECESS	2-GANG

AUDIOVISUAL CABLE SCHEDULE

DESIGNATION	DESCRIPTION	MANUFACTURER	MODEL NUM.	O.D.
HD	30' PRE-TERMINATED HDMI CABLE, BLACK, PLENUM RATED	KEY DIGITAL	KD-HDPC30	0.80
PA	100' PRE-TERMINATED BNC CABLE, BLACK, PLENUM RATED	SHURE	UA8100	0.25
PB	50' PRE-TERMINATED PS2 CABLE, GRAY PVC JACKET	C.CRANE	J50	0.80
PCN	PLENUM "CRESNET" CABLE 1PR 18 AWG STRANDED, 1PR 22 AWG, SHLD	WEST PENN	225350	0.196
PD	CAT 6 UTP 24 AWG, 4 TWISTED PAIRS UNSHIELDED PLENUM RATED	WEST PENN	254246	0.208
PDV	CAT 5E STP 24 AWG, 4 TWISTED PAIRS SHIELDED PLENUM RATED	CRESTRON	DM-CBL-9G-P	0.244
PL	1 PR 22 AWG STRANDED, SHIELDED WITH A GRAY JACKET (PLEN LINE LEV)	WEST PENN	25291B	0.124
PS10	1 PR 10 AWG JACKETED PLENUM SPEAKER CABLE IVORY JACKET	WEST PENN	25210	0.275
PS12	1 PR 12 AWG JACKETED SPEAKER CABLE GRAY JACKET, PLENUM RATED	WEST PENN	25227B	0.256
PS14	1 PR 14 AWG JACKETED SPEAKER CABLE GRAY JACKET, PLENUM RATED	WEST PENN	25226B	0.218
PS16	1 PR 16 AWG JACKETED SPEAKER CABLE GRAY JACKET, PLENUM RATED	WEST PENN	25225B	0.159
PV	RG6/U - 18AWG VIDEO CABLE IVORY JACKET, PLENUM RATED	WEST PENN	256350	0.236

DEVICE PLACEMENT EXAMPLE



STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
THE UNIVERSITY OF ALABAMA . TUSCALOOSA . ALABAMA
LA PROJECT # 885-12-102

DAVIS ARCHITECTS

AV CONDUIT LEGEND AND NOTES

SEPTEMBER 13, 2012

JJJ

3665.10

AV-200

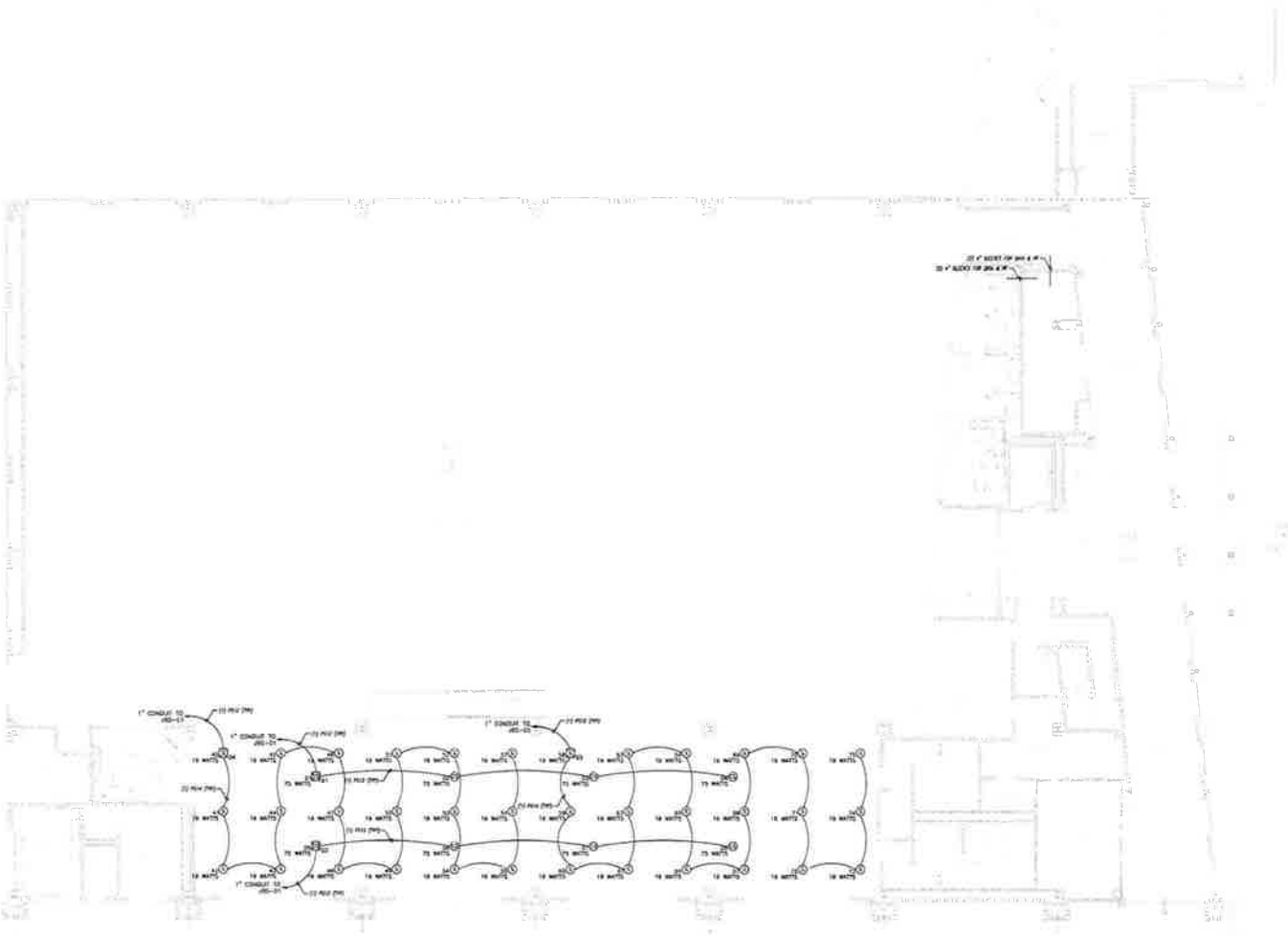
1 AV-201 FIRST LEVEL FLOOR PLAN - A/V DEVICE PLACEMENT & INFRASTRUCTURE
SCALE: 1/8" = 1'-0"

STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
THE UNIVERSITY OF ALABAMA | TUSCALOOSA | ALABAMA
UA PROJECT # 085-12-102

FIRST LEVEL FLOOR PLAN - A/V DEVICE PLACEMENT & INFRASTRUCTURE
SEPTEMBER 12, 2012

3665.10

AV-201



1 FIRST LEVEL REFLECTED CEILING PLAN - A/V DEVICE PLACEMENT & INFRASTRUCTURE
AV-202 SCALE: 1/8" = 1'-0"

STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
THE UNIVERSITY OF ALABAMA | TUSCALOOSA, ALABAMA
UA PROJECT # 085-12-102

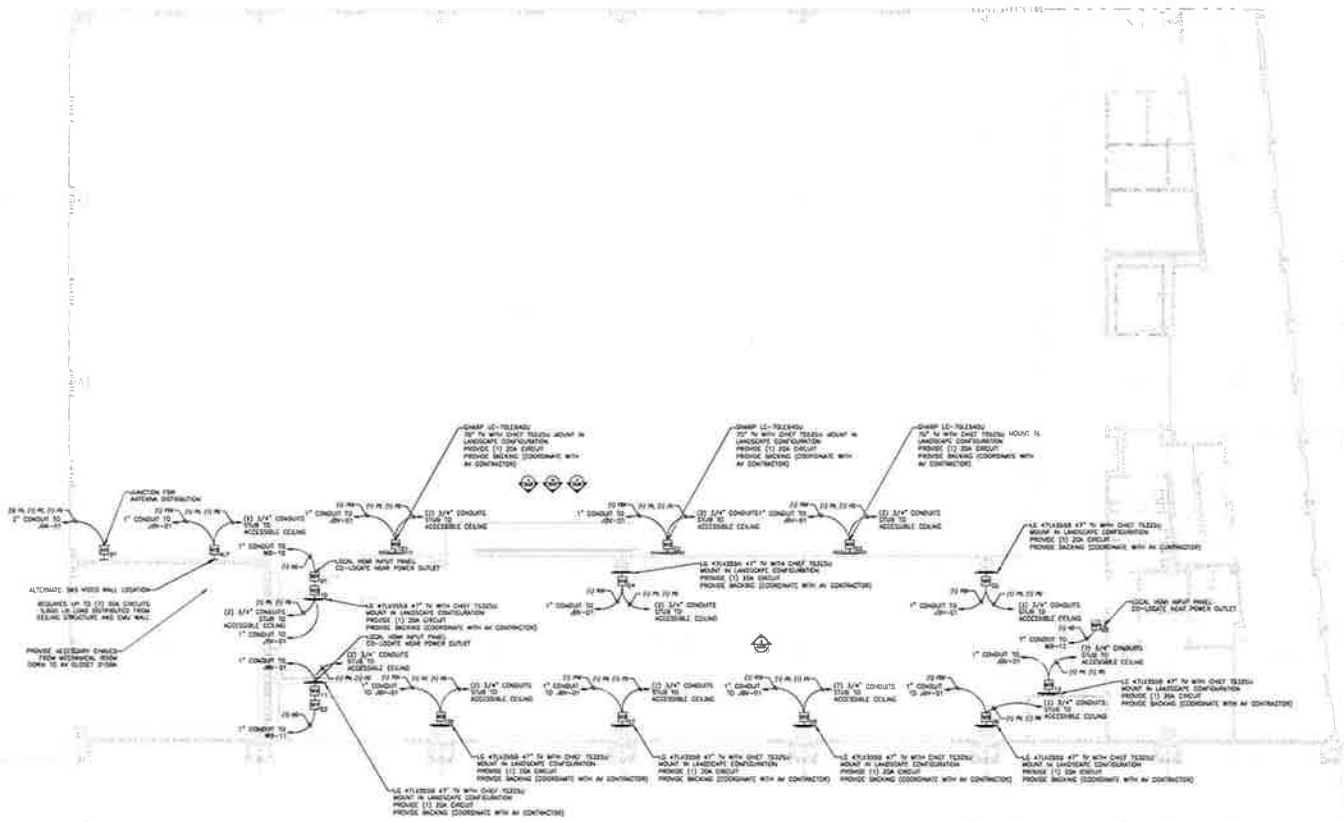
DAVIS ARCHITECTS

FIRST LEVEL RCP - A/V DEVICE PLACEMENT & INFRASTRUCTURE

SEPTEMBER 13, 2012

3665.10

AV-202



1 AV-203 **SECOND LEVEL FLOOR PLAN - A/V DEVICE PLACEMENT & INFRASTRUCTURE**
SCALE: 1/8" = 1'-0"

STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
THE UNIVERSITY OF ALABAMA, TUSCALOOSA, ALABAMA
UA PROJECT # 085-12-102

DAVIS ARCHITECTS

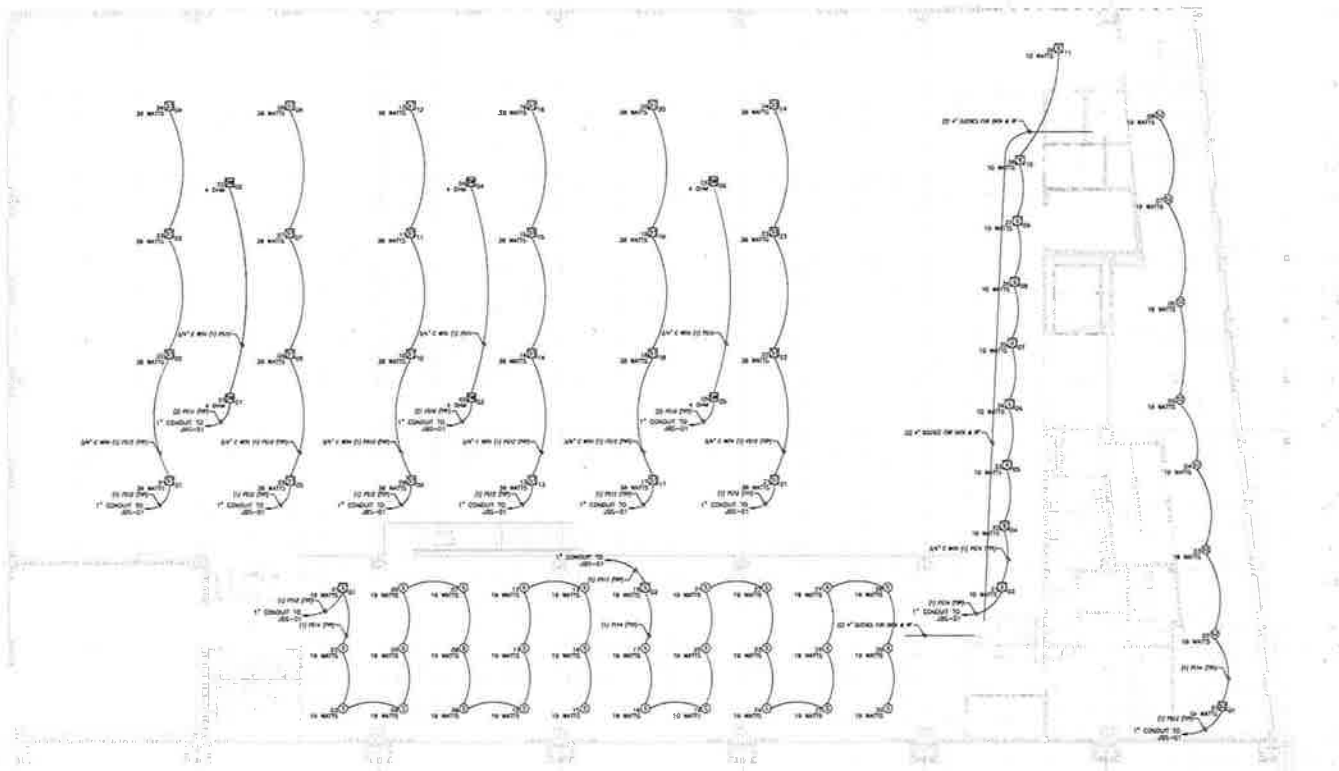
SECOND LEVEL FLOOR PLAN - A/V DEVICE PLACEMENT & INFRASTRUCTURE

SEPTEMBER 13, 2012

AJ | AJ | AJ

3665.10

AV-203



1 AV-204 **SECOND LEVEL REFLECTED CEILING PLAN - A/V DEVICE PLACEMENT & INFRASTRUCTURE**
SCALE: 1/8" = 1'-0"

STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
THE UNIVERSITY OF ALABAMA - TUSCALOOSA - ALABAMA
UA PROJECT # 085-12-102

DAVIS ARCHITECTS

SECOND LEVEL RCP - A/V DEVICE PLACEMENT & INFRASTRUCTURE

SEPTEMBER 13, 2012

AJ | AJ | AJ

3665.10

AV-204

ABBREVIATIONS

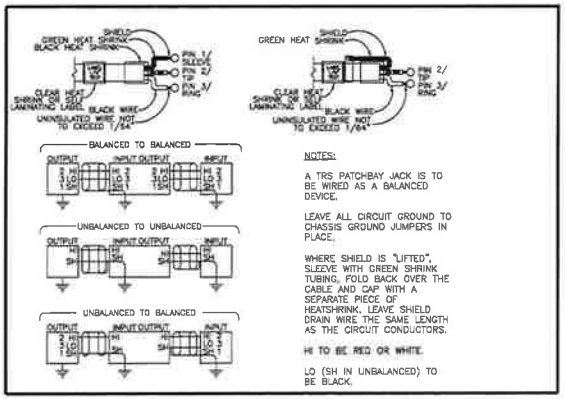
ACP	AMPLIFIER CONTROL PROCESSOR
ADA	AUDIO DISTRIBUTION AMPLIFIER
ALT	ASSISTIVE LISTENING TRANSMITTER
AMP	POWER AMPLIFIER
ANT	ANTENNA
APB	AUDIO PATCHBAY
ASW	AUDIO SWITCHER
AVR	AUDIO VIDEO RACK
AVS	AUDIO VIDEO SWITCHER
BAI	BAKER AUDIO INCORPORATED
BOB	BREAK OUT BOX
CAM	CAMERA/CAMERA INPUT PANEL
CAS	CASSETTE PLAYER
CCU	CAMERA CONTROL UNIT
CDP	COMPACT DISC PLAYER
COM	COMMUNICATION/CONTROL MODULE
CPU	CONTROL UNIT
DSP	DIGITAL SIGNAL PROCESSOR
DVD	DIGITAL VIDEO DISC
EQ	EQUALIZER
JBA	AUDIO JUNCTION BOX
JBC	CONTROL JUNCTION BOX
JBL	LINE LEVEL JUNCTION BOX
JBM	MICROPHONE JUNCTION BOX
JBV	VIDEO JUNCTION BOX
MIX	MIXER
MON	VIDEO MONITOR/TELEVISION
MSP	MONITOR SPEAKER PANEL
MST	ACTIVE MICROPHONE SPLITTER
NAD	NETWORK AUDIO DEVICE
NPB	NETWORK PATCHBAY
NSW	NETWORK SWITCH
OCC	OPERATOR CONTROL CONSOLE/PANEL
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PB	PULL BOX
P/O	PART OF
PRJ	VIDEO PROJECTOR
PSU	POWER SUPPLY RECEIVER
SPK	SPEAKER
TBD	TO BE DETERMINED
TBX	TABLE INTERFACE BOX
TLP	TIE LINE PANEL
VCR	VIDEO CASSETTE RECORDER
VDA	VIDEO DISTRIBUTION AMPLIFIER
VIP	VIDEO INPUT PANEL
VOL	VCA/VOLUME CONTROL
WAP	WIRELESS ACCESS POINT
WBX	WALL BOX
WRX	WIRELESS RECEIVER
WTX	WIRELESS TRANSMITTER

SIGNAL LEVEL

C	CONTROL SIGNAL
I	INTERCOM SIGNAL
L	LINE LEVEL
M	MIC LEVEL
R	RF SIGNAL
S	SPEAKER LEVEL
V	VIDEO SIGNAL

ONE LINE SYMBOLS

- PANEL MOUNT CONNECTOR (TYPE INDICATED)
- CABLE MOUNT FEMALE 3-PIN XLR
- CABLE MOUNT MALE 3-PIN XLR
- CABLE MOUNT BNC CONNECTOR
- CABLE MOUNT 1/8" MINI
- CABLE MOUNT 1/4" TIP-RING-SLEEVE CONNECTOR
- CABLE MOUNT DB-9 CONNECTOR
- CABLE MOUNT HD-15 CONNECTOR
- CABLE MOUNT DVI CONNECTOR
- CABLE MOUNT "F" CONNECTOR
- CABLE MOUNT FIBER CONNECTOR (TYPE INDICATED)
- CABLE MOUNT HDMI CONNECTOR
- CABLE MOUNT MINIATURE "DIN" CONNECTOR
- CABLE MOUNT "SPEAKON" CONNECTOR
- CABLE MOUNT RCA CONNECTOR
- CABLE MOUNT RJ45 CONNECTOR
- PHOENIX STYLE TERMINAL BLOCK
- SCREW STYLE TERMINAL BLOCK
- NORMALLED PATCHBAY CONNECTION (25)
- VOLUME CONTROL
- POTENTIOMETER
- I/R EMITTER
- I/R RECEIVER
- TRANSMIT ANTENNA
- RECEIVE ANTENNA
- ON PAGE FLAG FROM DEVICE (A)
- ON PAGE FLAG TO DEVICE (A)
- OFF PAGE FLAG FROM DEVICE (DWG_NO XXX)
- OFF PAGE FLAG TO DEVICE (DWG_NO XXX)
- TWO WAY LOUDSPEAKER
- POWERED LOUDSPEAKER
- 70 VOLT LOUDSPEAKER WITH XFORMER
- POWER AMPLIFIER (INPUT / OUTPUT)
- DIPSWITCH (ON, 1 2)


GREEN HEAT SHRINK
BLACK HEAT SHRINK
SHIELD
CLEAR HEAT SHRINK OR SELF LAMINATING LABEL
BLACK WIRE
UNINSULATED WIRE NOT TO EXCEED 1/64"
PIN 1/ SLEEVE
PIN 2/ TIP
PIN 3/ RING
BALANCED TO BALANCED
UNBALANCED TO UNBALANCED
UNBALANCED TO BALANCED
OUTPUT
INPUT
NOTES:
A TRS PATCHBAY JACK IS TO BE WIRED AS A BALANCED DEVICE.
LEAVE ALL CIRCUIT GROUND TO CHASSIS GROUND JUMPERS IN PLACE.
WHERE SHIELD IS "LIFTED", SLEEVE WITH GREEN SHRINK TUBING, FOLD BACK OVER THE CABLE AND CAP WITH A SEPARATE PIECE OF HEATSHRINK. LEAVE SHIELD DRAIN WIRE THE SAME LENGTH AS THE CIRCUIT CONDUCTORS.
HI TO BE RED OR WHITE.
LO (SH IN UNBALANCED) TO BE BLACK.

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UA PROJECT # 085-12-102

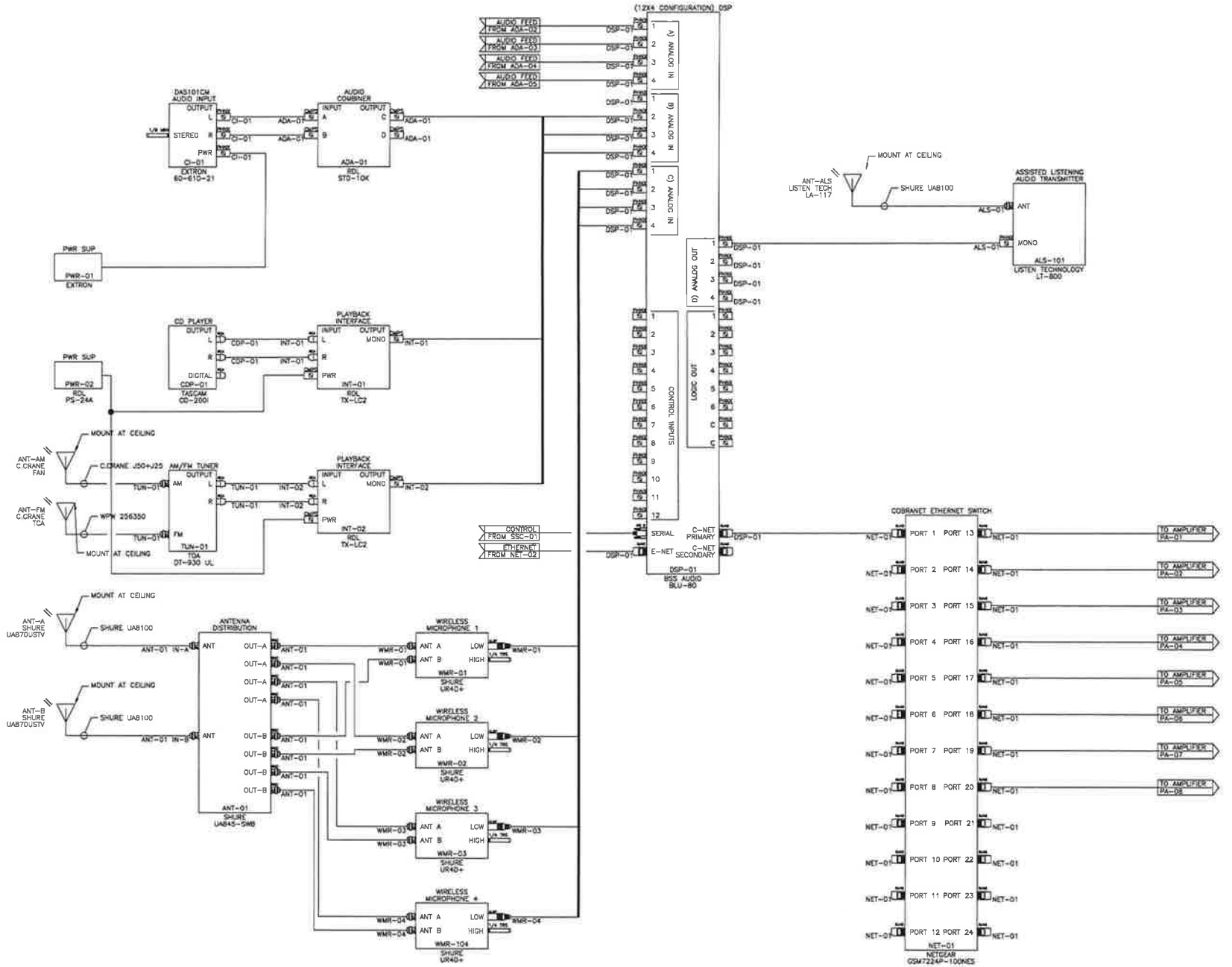
DAVIS ARCHITECTS

A/V ONE LINE LEGEND AND NOTES

SEPTEMBER 13 2012

3665.10

AV-300



STRENGTH & CONDITIONING FACILITY

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UA PROJECT # 085-12-102

DAVIS ARCHITECTS

A/V ONE LINE BLOCK DRAWINGS

SEPTEMBER 13, 2012

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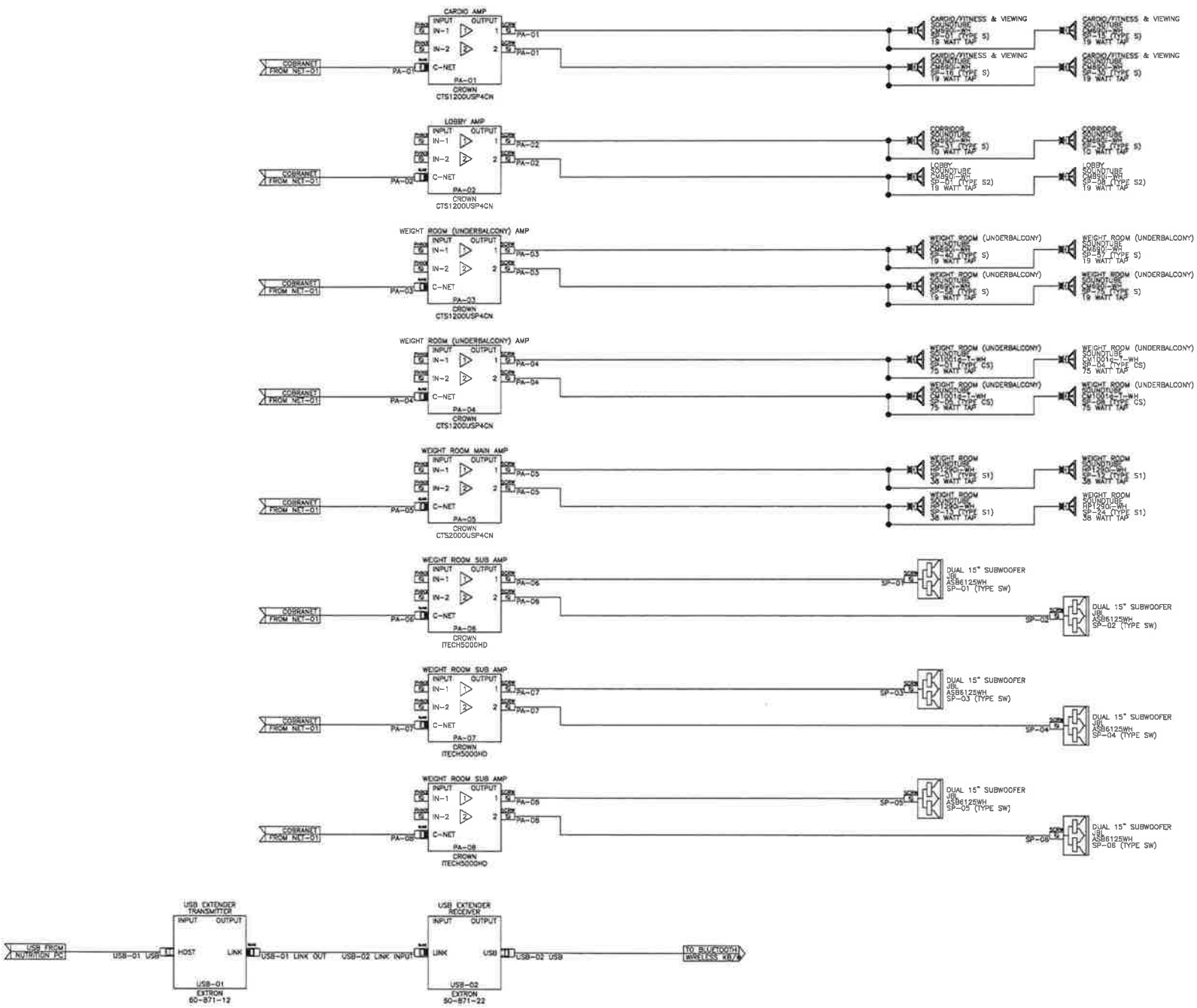
AV-301


CARDIO AMP
INPUT
OUTPUT
IN-1
IN-2
C-NET
PA-01
CROWN
CTS1200USP4CN
COBRANET FROM NET-01
CARDIO/FITNESS & VIEWING SOUNDTUBE CMSST-WH SP-15 (TYPE S) 19 WATT TAP
CARDIO/FITNESS & VIEWING SOUNDTUBE CMSST-WH SP-16 (TYPE S) 19 WATT TAP
LOBBY AMP
PA-02
LOBBY SOUNDTUBE CMSST-WH SP-07 (TYPE S2) 19 WATT TAP
CORRIDOR SOUNDTUBE CMSST-WH SP-11 (TYPE S) 19 WATT TAP
WEIGHT ROOM (UNDERBALCONY) AMP
PA-03
WEIGHT ROOM (UNDERBALCONY) SOUNDTUBE CMSST-WH SP-10 (TYPE S) 19 WATT TAP
WEIGHT ROOM (UNDERBALCONY) SOUNDTUBE CMSST-WH SP-09 (TYPE S) 19 WATT TAP
WEIGHT ROOM (UNDERBALCONY) AMP
PA-04
WEIGHT ROOM (UNDERBALCONY) SOUNDTUBE CMSST-WH SP-04 (TYPE CS) 75 WATT TAP
WEIGHT ROOM (UNDERBALCONY) SOUNDTUBE CMSST-WH SP-08 (TYPE CS) 75 WATT TAP
WEIGHT ROOM MAIN AMP
PA-05
WEIGHT ROOM SOUNDTUBE CMSST-WH SP-12 (TYPE S1) 38 WATT TAP
WEIGHT ROOM SOUNDTUBE CMSST-WH SP-13 (TYPE S1) 38 WATT TAP
WEIGHT ROOM SUB AMP
PA-06
CROWN
ITECH5000HD
DUAL 15" SUBWOOFER JBL ASB6125WH SP-01 (TYPE SW)
DUAL 15" SUBWOOFER JBL ASB6125WH SP-02 (TYPE SW)
PA-07
DUAL 15" SUBWOOFER JBL ASB6125WH SP-03 (TYPE SW)
DUAL 15" SUBWOOFER JBL ASB6125WH SP-04 (TYPE SW)
PA-08
DUAL 15" SUBWOOFER JBL ASB6125WH SP-05 (TYPE SW)
DUAL 15" SUBWOOFER JBL ASB6125WH SP-06 (TYPE SW)
USB EXTENDER TRANSMITTER
HOST
LINK
USB-01
EXTRON
60-871-12
USB EXTENDER RECEIVER
USB
USB-02
60-871-22
USB FROM NUTRITION PC
USB-01 USB
USB-01 LINK OUT
USB-02 LINK INPUT
USB-02 USB
TO BLUETOOTH WIRELESS KB/M

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LA PROJECT # 085-12-H02

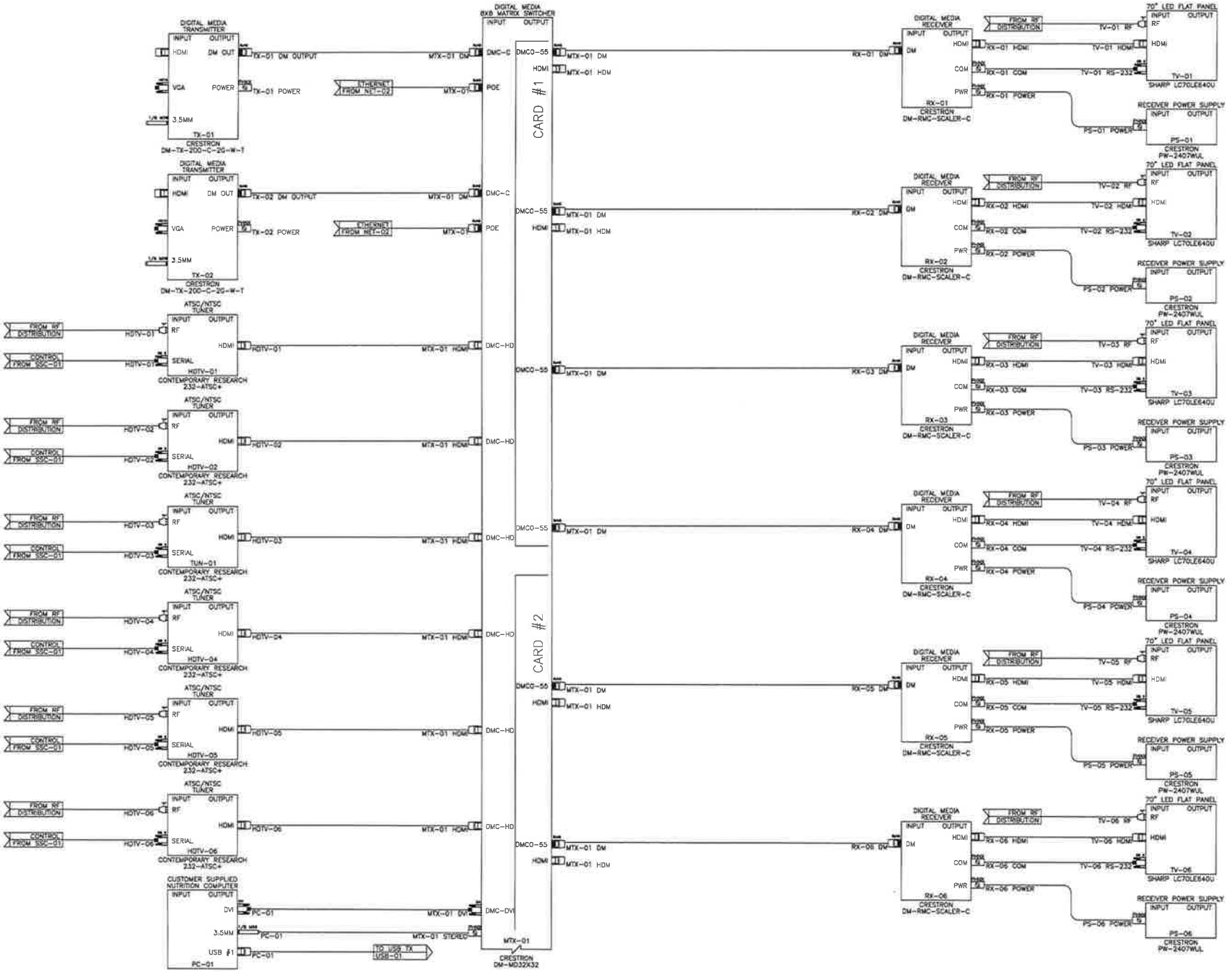
DAVIS ARCHITECTS

AV ONE LINE BLOCK DRAWINGS

SEPTEMBER 13, 2012

3665.10

AV-302



STRENGTH & CONDITIONING FACILITY
FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
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EA PROJECT # 085-12-002

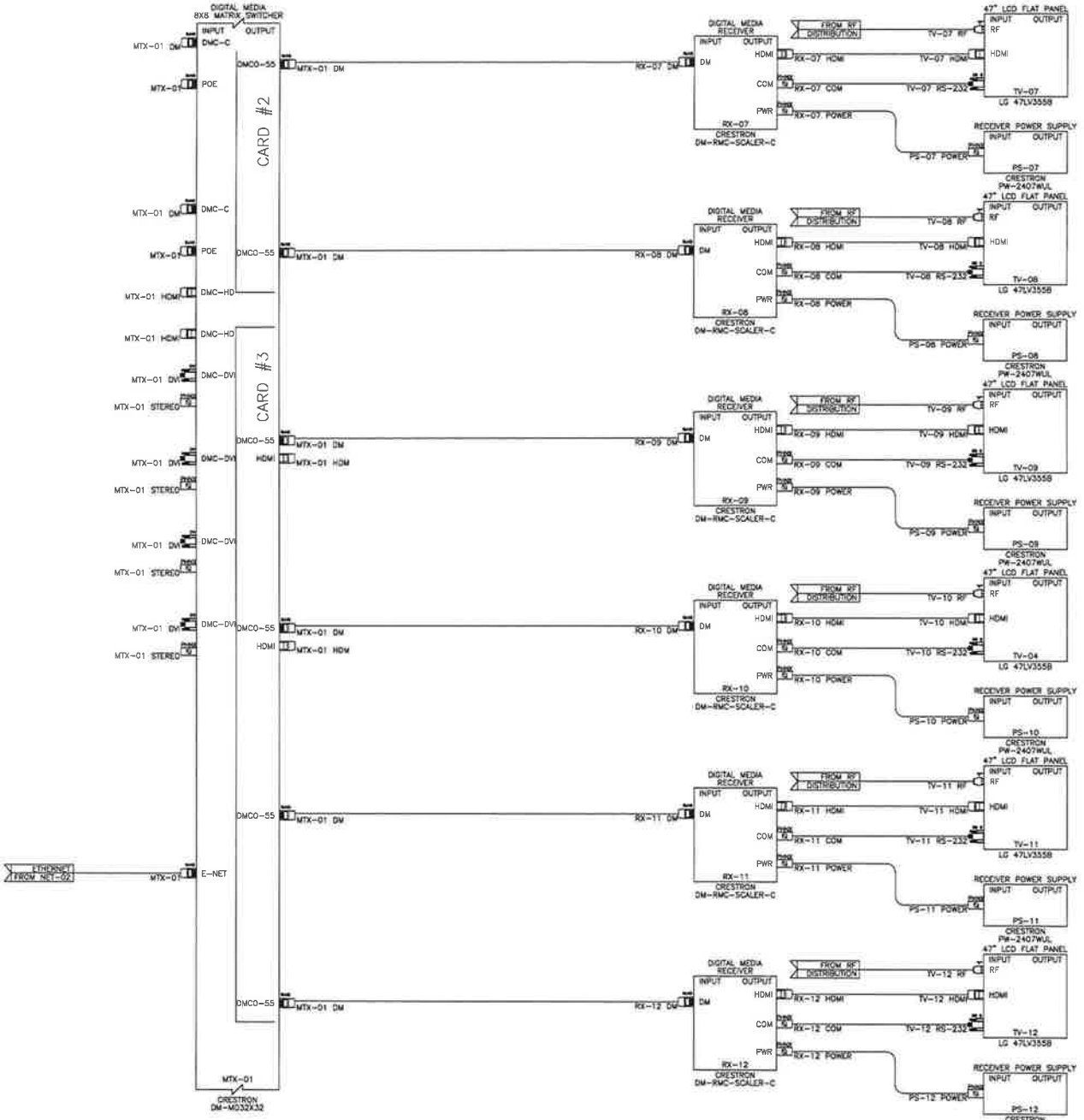
AV ONE LINE BLOCK DRAWINGS

SEPTEMBER 13, 2012

AJ | JJ | JJ

3665.10

AV-303



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FURNITURE / EQUIPMENT / TECHNOLOGY PACKAGE
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UA PROJECT # 085-12-102

GAUTE ARCHITECTS

AV ONE LINE BLOCK DRAWINGS

SEPTEMBER 13, 2012

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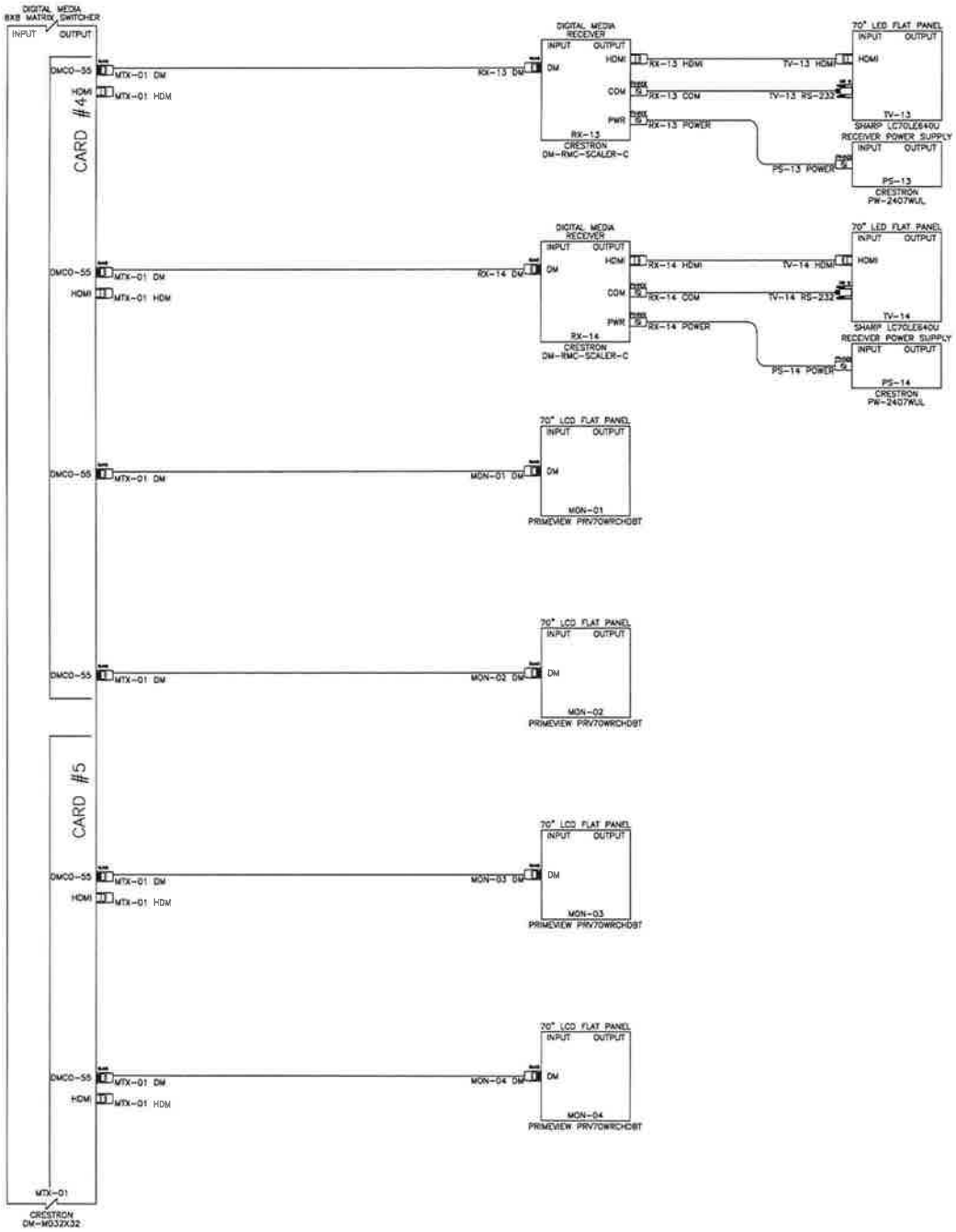
3665.10

AV-304



STRENGTH & CONDITIONING FACILITY

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UA PROJECT # 085-12-102

DAVIS ARCHITECTS

A/V ONE LINE BLOCK DRAWINGS

SEPTEMBER 13, 2012

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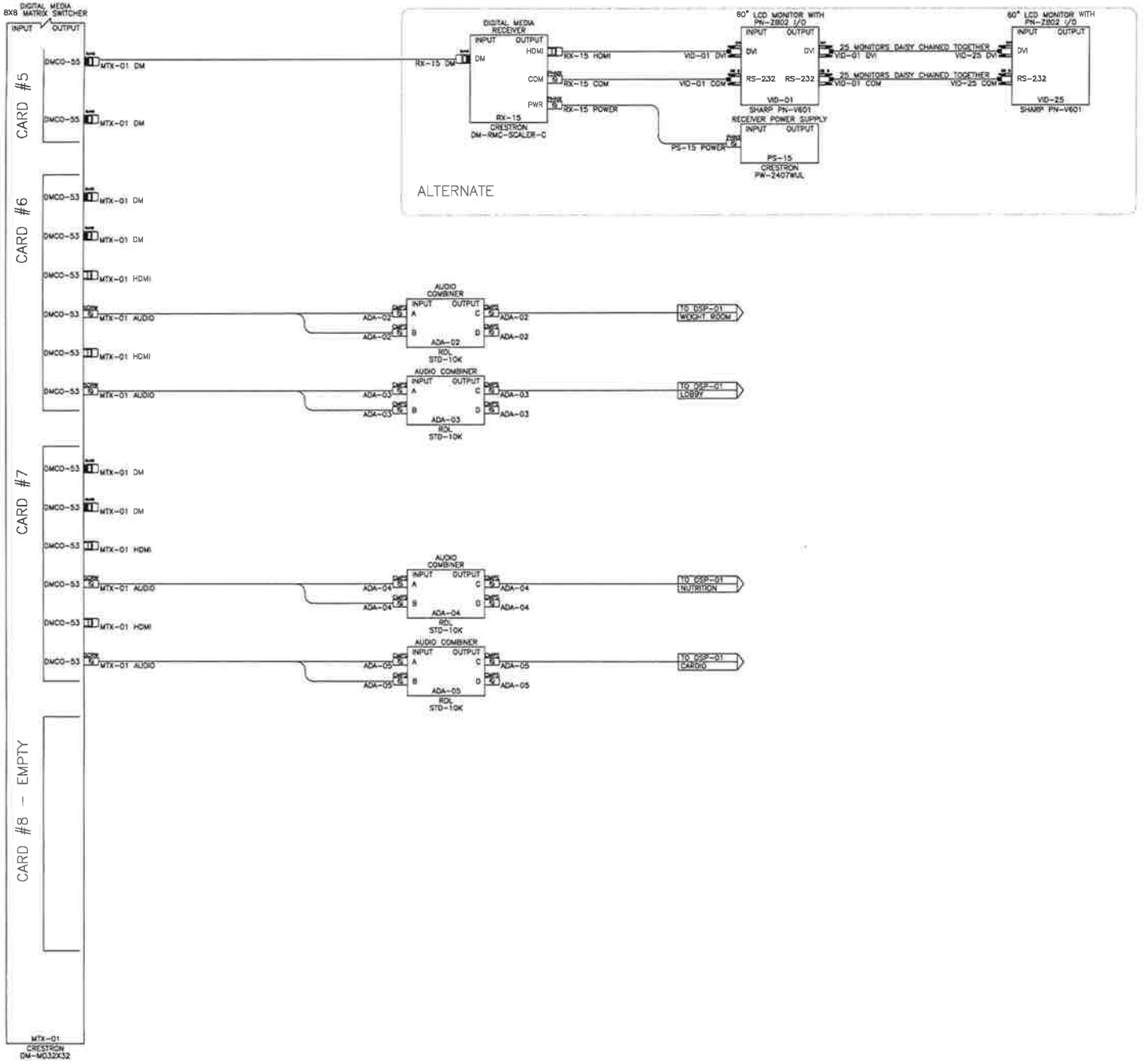
AV-305



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UA PROJECT # 085-12-102

DAVID ARCHITECTS

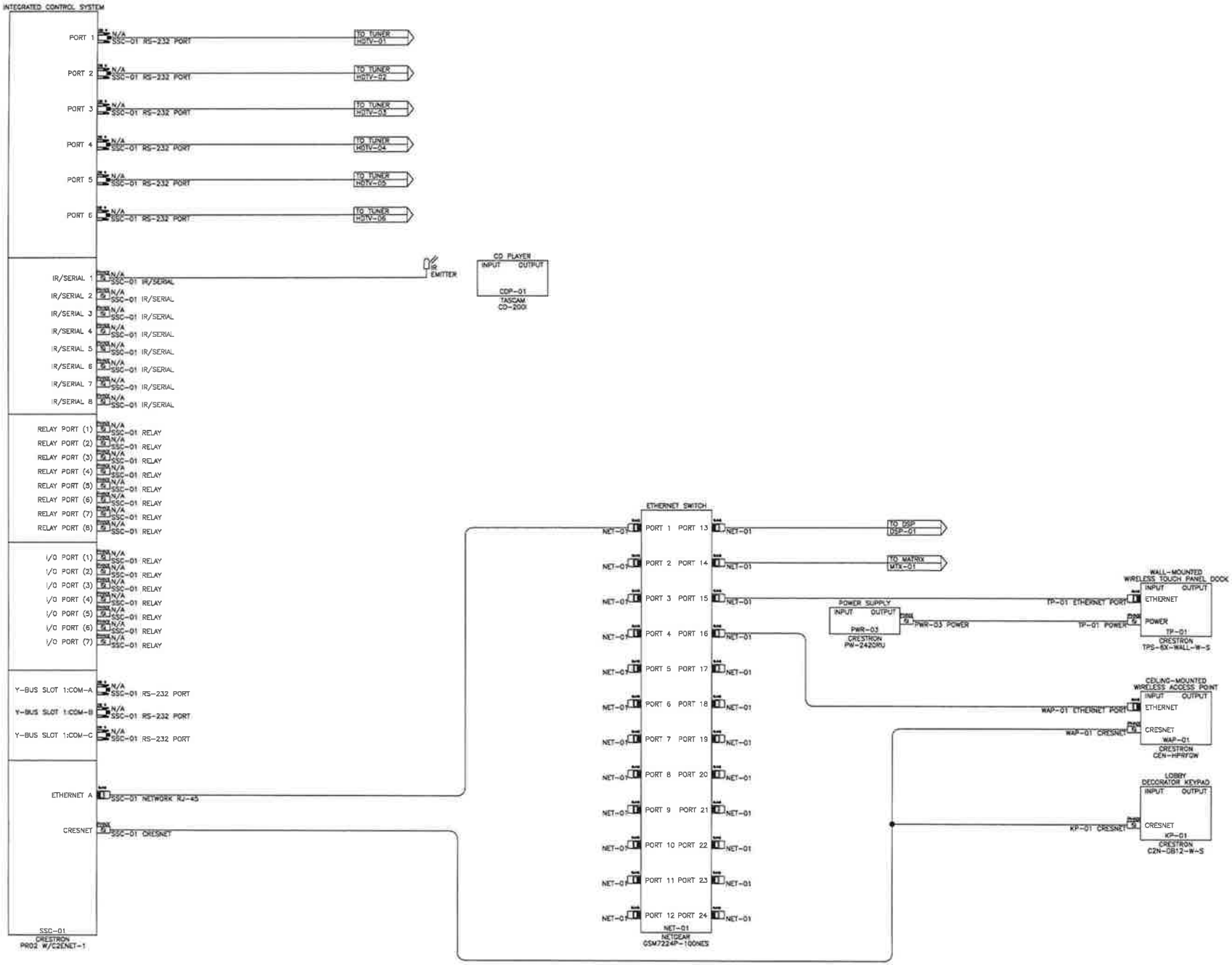
A/V ONE LINE BLOCK DRAWINGS

SEPTEMBER 13 2012

JLJ | JLJ | JLJ

3665.10

AV-306



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THE UNIVERSITY OF ALABAMA : TUSCALOOSA , ALABAMA
UA PROJECT # 085-12-102

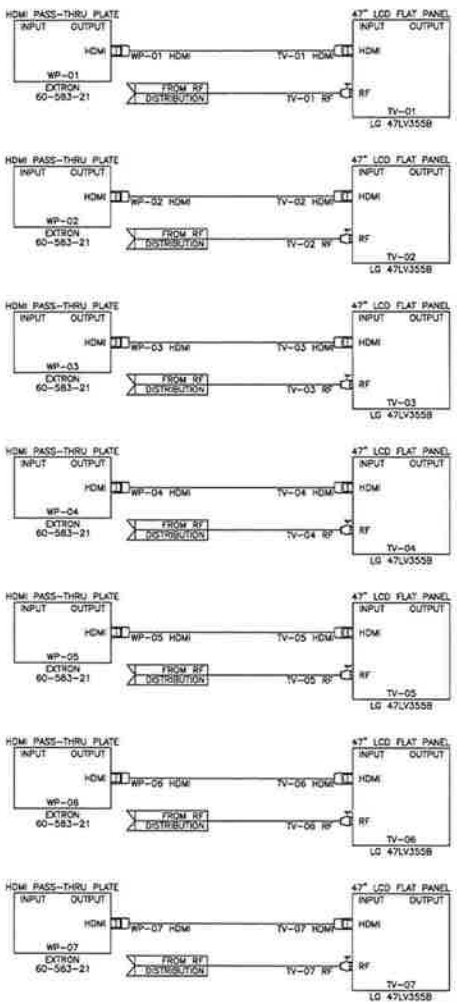
AV ONE LINE BLOCK DRAWINGS

SEPTEMBER 13 2012

JLJ | JLJ | JLJ

3665.10

AV-307



STRENGTH & CONDITIONING FACILITY

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UA PROJECT # 085-12-102

DAVIS ARCHITECTS

AV ONE LINE BLOCK DRAWINGS

SEPTEMBER 13, 2012

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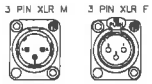
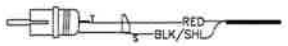
AV-308

TYPICAL 3 PIN XLR CONNECTION



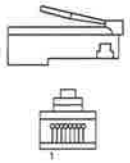
PIN NO	SIGNAL	COLOR
1	GND	SHLD
2	HIGH (+)	RED
3	LOW (-)	BLK

TYPICAL RCA CONNECTION



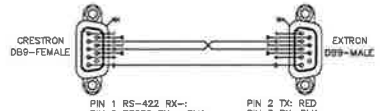
PIN NO	SIGNAL	COLOR
S	GND	SHLD
T	HIGH (+)	RED
S	GND	BLK

EIA/TIA 568A STANDARD



PIN NO	SIGNAL	COLOR
1	TX+	WHITE/GREEN
2	TX-	GREEN/WHITE
3	RX+	WHITE/ORANGE
4	NA	BLUE/WHITE
5	NA	WHITE/BLUE
6	RX-	ORANGE/WHITE
7	NA	WHITE/BROWN
8	NA	BROWN/WHITE

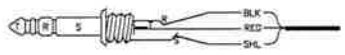
EIA232 STANDARD FOR EXTRON DEVICES



PIN 1 RS-422 RX-:
PIN 2 RS232 RX: BLK
PIN 3 RS232 TX: RED
PIN 4 RS422 TX+:
PIN 5 GND: SHD
PIN 6 RS422 RX+:
PIN 7 RS232 RTS:
PIN 8 RS232 CTS:
PIN 9 RS422 TX-:

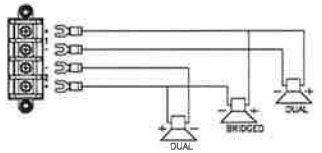
PIN 2 TX: RED
PIN 3 RX: BLK
PIN 5 GND: SHD

TYPICAL 1/4" TRS CONNECTION

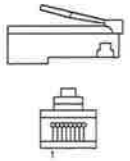


PIN NO	SIGNAL	COLOR
S	GND	SHLD
T	HIGH (+)	RED
R	LOW (-)	BLK

TYPICAL AMPLIFIER OUTPUT SCREW TERMINAL

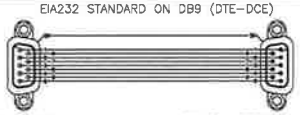


EIA/TIA 568B STANDARD



PIN NO	SIGNAL	COLOR
1	TX+	WHITE/ORANGE
2	TX-	ORANGE/WHITE
3	RX+	WHITE/GREEN
4	NA	BLUE/WHITE
5	NA	WHITE/BLUE
6	RX-	GREEN/WHITE
7	NA	WHITE/BROWN
8	NA	BROWN/WHITE

EIA232 STANDARD ON DB9 (DTE-DCE)



PIN NO	SIGNAL
1	LINE SIG DET
2	TX
3	RX
4	DTE READY

PIN NO	SIGNAL
5	GROUND
6	DCE READY
7	CTS
8	RTS
9	RING IND

TYPICAL 1/4" TS CONNECTION

PIN NO	SIGNAL	COLOR
S	GND	SHLD
T	HIGH (+)	RED
S	GND	BLK

TYPICAL BALANCED AUDIO TO AMPLIFIER 5MM PHOENIX CONNECTION

PIN NO	SIGNAL	COLOR
3	LOW (-)	BLK
2	GROUND	SHLD
1	HIGH (+)	RED

TYPICAL CRESTRON CONTROL CONNECTION

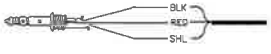
PIN NO	SIGNAL	COLOR
4	GRN	BLK
3	Z	BLUE
2	Y	WHT
1	24	RED

EIA232 STANDARD FOR BIAMP AUDIAFLEX

PIN 1 RS-422 RX-:
PIN 2 RS232 RX: BLK
PIN 3 RS232 TX: RED
PIN 4 RS422 TX+:
PIN 5 GND: SHD
PIN 6 RS422 RX+:
PIN 7 RS232 RTS:
PIN 8 RS232 CTS:
PIN 9 RS422 TX-:

PIN 2 TX: RED
PIN 3 RX: BLK
PIN 5 GND: SHD

TYPICAL 3.5MM TRS CONNECTION

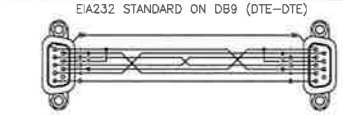


PIN NO	SIGNAL	COLOR
S	GND	SHLD
T	HIGH (+)	RED
R	LOW (-)	BLK

TYPICAL UNBALANCED STEREO AUDIO OUTPUT 3.5MM PHOENIX CONNECTION

PIN NO	SIGNAL	COLOR
5	RIGHT NEGATIVE (-)	NC
4	RIGHT POSITIVE (+)	RED
3	GROUND	SHLD
2	LEFT NEGATIVE (-)	NC
1	LEFT POSITIVE (+)	RED

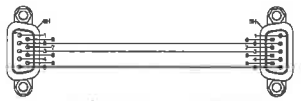
EIA232 STANDARD ON DB9 (DTE-DTE)



PIN NO	SIGNAL
1	LINE SIG DET
2	TX
3	RX
4	DTE READY

PIN NO	SIGNAL
5	GROUND
6	DCE READY
7	CTS
8	RTS
9	NO CONN

EIA RS232 STANDARD FOR DPI PROJECTORS



PIN 2 TX: WHT
PIN 3 RX: BLU
PIN 5 GND: SHD

PIN 2 RX: WHT
PIN 3 TX: BLU
PIN 5 GND: SHD

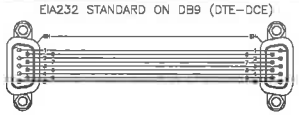
TYPICAL 3.5MM TS CONNECTION

PIN NO	SIGNAL	COLOR
S	GND	SHLD
T	HIGH (+)	RED
S	GND	BLK

TYPICAL BALANCED STEREO AUDIO 3.5MM PHOENIX CONNECTION

PIN NO	SIGNAL	COLOR
5	RIGHT NEGATIVE (-)	BLK
4	RIGHT POSITIVE (+)	RED
3	GROUND	SHLD
2	LEFT NEGATIVE (-)	BLK
1	LEFT POSITIVE (+)	RED

EIA232 STANDARD ON DB9 (DTE-DCE)



PIN NO	SIGNAL
1	LINE SIG DET
2	TX
3	RX
4	DTE READY

PIN NO	SIGNAL
5	GROUND
6	DCE READY
7	CTS
8	RTS
9	RING IND

EIA232 STANDARD FOR TANDBERG HDX-9004 CODEC

PIN 2 TX: WHT
PIN 3 RX: BLU
PIN 5 GND: SHD

PIN 2 TX: BLU
PIN 3 RX: WHT
PIN 5 GND: SHD

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THE UNIVERSITY OF ALABAMA, TUSCALOOSA - ALABAMA
UA PROJECT # 085-12-102

DAVIS ARCHITECTS

STANDARD SIGNAL WIRING DETAILS

SEPTEMBER 13, 2012

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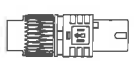
AV-400

TYPICAL SPEAKON NL2 CONNECTION

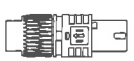


PIN NO	SIGNAL
+	SPEAKER POS.
–	SPEAKER NEG.

TYPICAL BALANCED AUDIO TO/FROM XAP 5MM PHOENIX CONNECTION

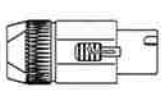
PIN NO	SIGNAL	COLOR
3	GND	SHLD
2	LOW (–)	BLK
1	HIGH (+)	RED

TYPICAL SPEAKON NL4 CONNECTION



PIN NO	SIGNAL
1+	SPEAKER 1 POS.
1–	SPEAKER 1 NEG.
2+	SPEAKER 2 POS.
2–	SPEAKER 2 NEG.

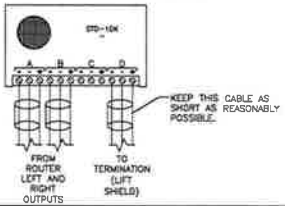
TYPICAL SPEAKON NL8 CONNECTION



PIN NO	SIGNAL
1+	SPEAKER 1 POS.
1–	SPEAKER 1 NEG.
2+	SPEAKER 2 POS.
2–	SPEAKER 2 NEG.

PIN NO	SIGNAL
3+	SPEAKER 3 POS.
3–	SPEAKER 3 NEG.
4+	SPEAKER 4 POS.
4–	SPEAKER 4 NEG.

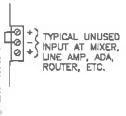
PASSIVE SUMMING NETWORK DETAIL



VISCA RS232C (DIN 8PIN – DIN 8PIN)

PIN NO	SIGNAL
1	DTR
2	DSR
3	TXD
4	GND
5	RXD

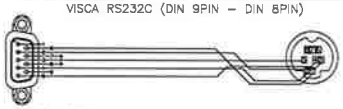
SHORTED (TERMINATED) AUDIO INPUT



ADD JUMPER BETWEEN + AND – TERMINALS;
DO NOT GROUND EITHER + OR –;
DO NOT COMMON WITH OTHER INPUT TERMINALS;
DO NOT USE JUMPER LONGER THAN 1/2 INCH.

TYPICAL UNUSED INPUT AT MIXER, LINE AMP, ADA, ROUTER, ETC.

VISCA RS232C (DIN 9PIN – DIN 8PIN)



PIN NO	SIGNAL
1	LINE SIG DET
2	TX
3	RX
4	DTE READY

PIN NO	SIGNAL
5	GROUND
6	DCE READY
7	CTS
8	RTS
9	RING IND

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DAVIS ARCHITECTS

STANDARD SIGNAL WIRING DETAILS

SEPTEMBER 13 2012

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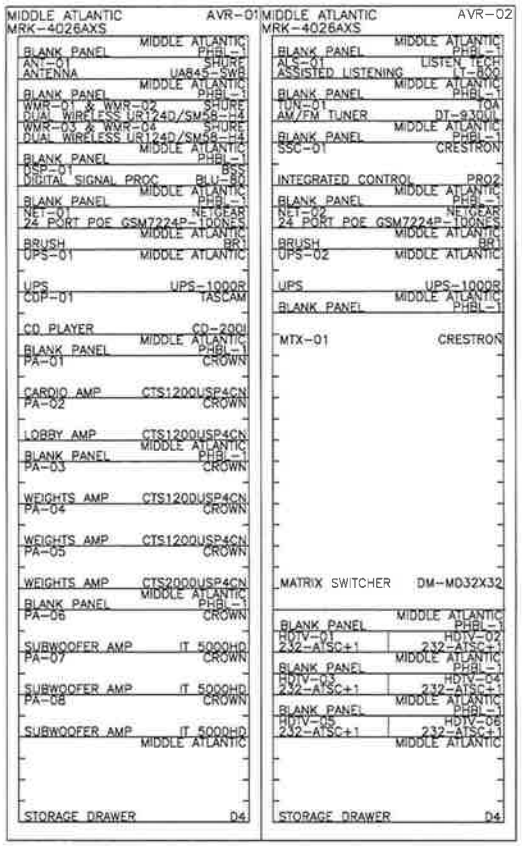
AV-401



1 AV-601 **AVR-01 & AVR-02 LOCATED IN A/V EQUIPMENT ROOM 0108A**
SCALE: 3"=1'-0"

ESTIMATED HEAT LOAD OF 21,185 BTU/HR – HVAC DEDICATED TO THIS CLOSET MUST BE AVAILABLE FOR USE OUTSIDE OF NORMAL SHUT-DOWN HOURS. EFFORTS WILL BE MADE TO SHUT-DOWN A/V EQUIPMENT WHEN NOT IN USE TO REDUCE POWER/HEAT.

(6) 20A CIRCUITS WILL BE HARDWIRED TO EACH EQUIPMENT RACK – RACK BACK-CAN WITH ELECTRICAL RACEWAY SHALL BE INSTALLED EARLY TO ALLOW SUCH WIRING TO TAKE PLACE.

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A/V SYSTEM RACK ELEVATIONS

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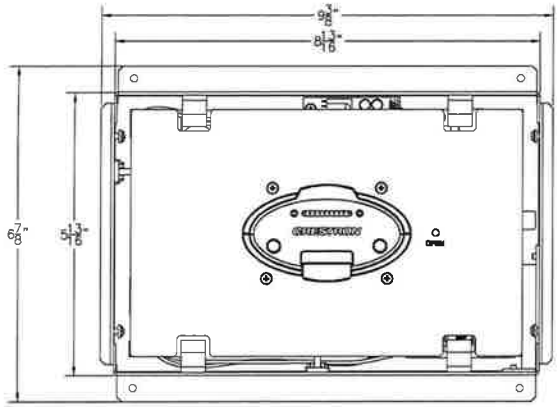
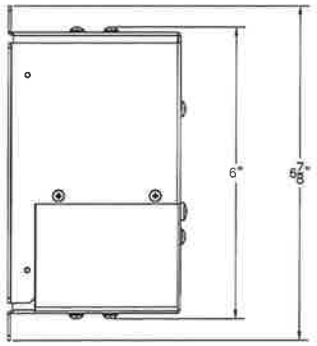
AV-601



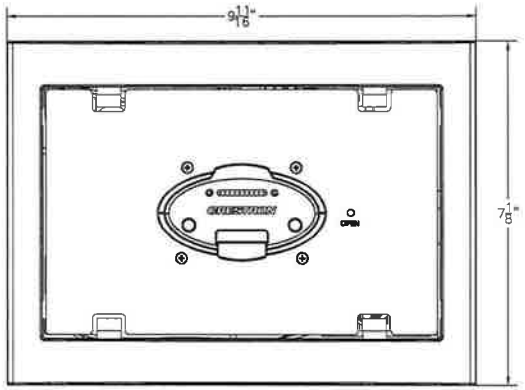
1 / 801 CRESTRON BB-6X-DSW TOUCH PANEL DOCKING STATION WITHOUT BEZEL (FRONT VIEW)
SCALE: 1"=1"

CP 01



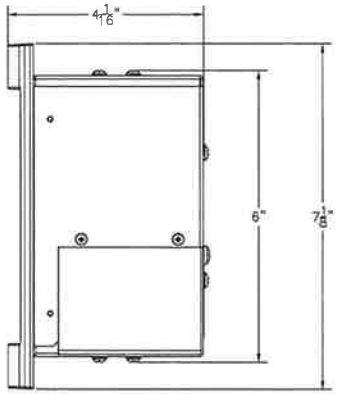
2 / 801 CRESTRON BB-6X-DSW TOUCH PANEL DOCKING STATION WITHOUT BEZEL (SIDE VIEW)
SCALE: 1"=1"

CP 01



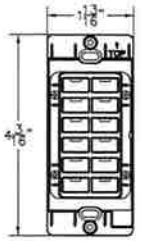
3 / 801 CRESTRON BB-6X-DSW TOUCH PANEL DOCKING STATION WITH BEZEL (FRONT VIEW)
SCALE: 1"=1"

CP 01



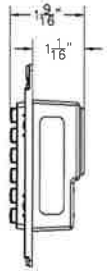
4 / 801 CRESTRON BB-6X-DSW TOUCH PANEL DOCKING STATION WITH BEZEL (SIDE VIEW)
SCALE: 1"=1"

CP 01



5 / 801 CRESTRON C2N-DB12-W-S KEYPAD CONTROL PANEL (FRONT VIEW)
SCALE: 1"=1"

CP 02



6 / 801 CRESTRON C2N-DB12-W-S KEYPAD CONTROL PANEL (SIDE VIEW)
SCALE: 1"=1"

CP 02

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DAVIS ARCHITECTS

CRESTRON DOCKING STATION & CONTROL PANEL DETAILS

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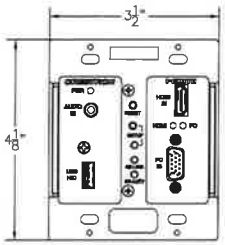
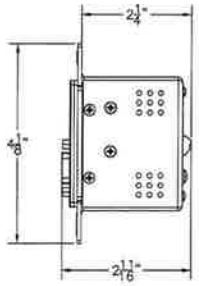
AV-801



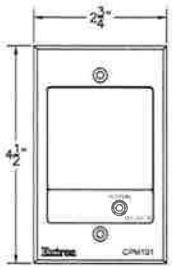
1 / B03 CRESTRON DM-TX-200-C-2G-W-T INPUT WALL PLATE (FRONT VIEW)
SCALE: 1"=1"

WP 08 WP 10



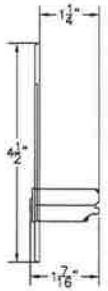
2 / B02 CRESTRON DM-TX-200-C-2G-W-T INPUT WALL PLATE (SIDE VIEW)
SCALE: 1"=1"

WP 08 WP 10



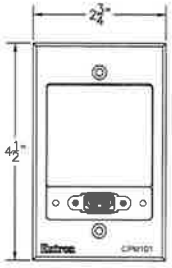
3 / B02 EXTRON CPM101 AUDIO INPUT WALL PLATE (FRONT VIEW)
SCALE: 1"=1"

WP 09



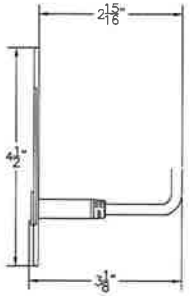
4 / B02 EXTRON CPM101 AUDIO INPUT WALL PLATE (SIDE VIEW)
SCALE: 1"=1"

WP 09



5 / B02 EXTRON CPM101 HDMI INPUT WALL PLATE (FRONT VIEW)
SCALE: 1"=1"

WP XX



6 / B02 EXTRON CPM101 HDMI INPUT WALL PLATE (SIDE VIEW)
SCALE: 1"=1"

WP XX

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DAVIS ARCHITECTS

WALL PLATE DETAILS

SEPTEMBER 13, 2012

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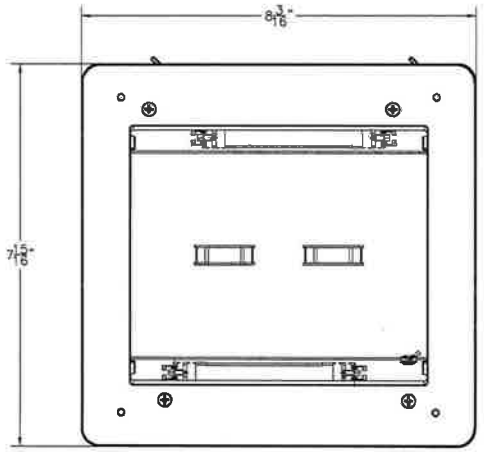
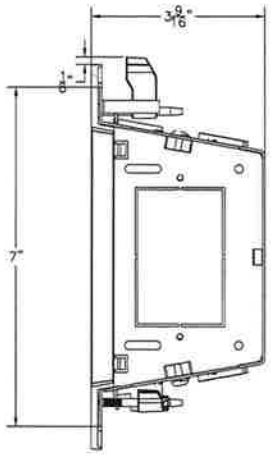


WB XX

1 / 803 HUBBELL RACO NVSA62M STEEL TV INSTALLATION BOX (FRONT VIEW)
SCALE: 1"=1"



WB XX

2 / 803 HUBBELL RACO NVSA62M STEEL TV INSTALLATION BOX (SIDE VIEW)
SCALE: 1"=1"

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DAVIS ARCHITECTS

HUBBELL RACO NVSA62M STEEL TV BOX DETAILS

SEPTEMBER 13, 2012

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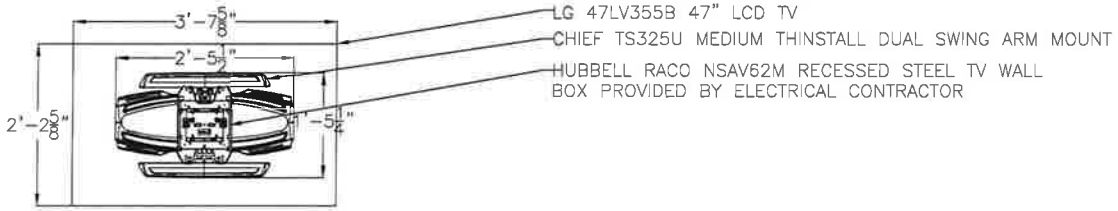
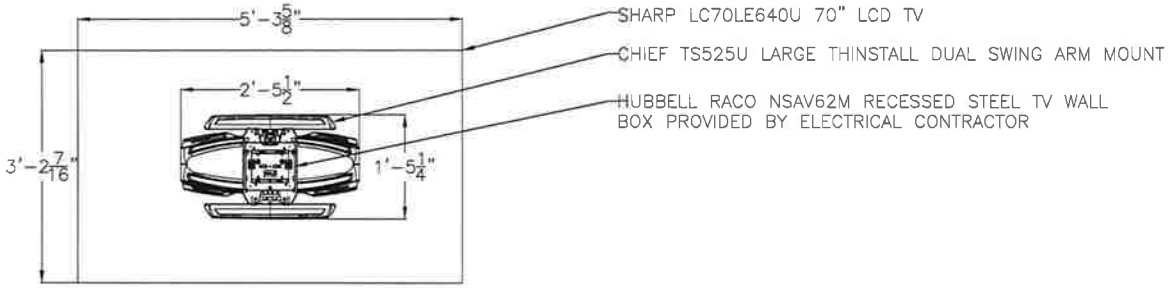
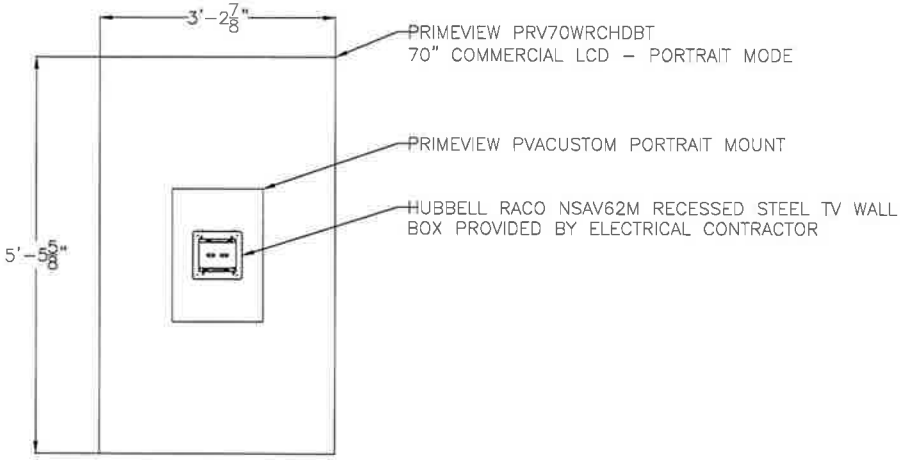

3'-7 5/8"
2'-5 1/2"
2'-2 5/8"
1'-5 1/4"
LG 47LV355B 47" LCD TV
CHIEF TS325U MEDIUM THINSTALL DUAL SWING ARM MOUNT
HUBBELL RACO NSAV62M RECESSED STEEL TV WALL BOX PROVIDED BY ELECTRICAL CONTRACTOR

1 / 804 **GENERIC DETAIL OF LG 47LV355B 47" TV FOR OFFICE AND CARDIO SPACE**
SCALE: 1 1/2"=1'-0"


5'-3 5/8"
2'-5 1/2"
3'-2 7/16"
1'-5 1/4"
SHARP LC70LE640U 70" LCD TV
CHIEF TS525U LARGE THINSTALL DUAL SWING ARM MOUNT
HUBBELL RACO NSAV62M RECESSED STEEL TV WALL BOX PROVIDED BY ELECTRICAL CONTRACTOR

2 / 804 **GENERIC DETAIL OF SHARP LC70LE640U 70" TV FOR WEIGHT ROOM - LANDSCAPE**
SCALE: 1 1/2"=1'-0"


3'-2 7/8"
5'-5 5/8"
PRIMEVIEW PRV70WRCHDBT
70" COMMERCIAL LCD – PORTRAIT MODE
PRIMEVIEW PVACUSTOM PORTRAIT MOUNT
HUBBELL RACO NSAV62M RECESSED STEEL TV WALL BOX PROVIDED BY ELECTRICAL CONTRACTOR

3 / 804 **GENERIC DETAIL OF PRIMEVIEW PRV70WRCHDBT 70" MONITOR FOR WEIGHT ROOM - PORTRAIT**
SCALE: 1 1/2"=1'-0"

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UA PROJECT # 085-12-102

DAVIS ARCHITECTS

TV DETAILS

SEPTEMBER 13, 2012

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AV-804

THE UNIVERSITY OF ALABAMA

CERTIFICATION OF COMPLIANCE WITH THE STATE OF ALABAMA IMMIGRATION LAW

The undersigned officer of _____ (Company) certifies to the Board of Trustees of the University of Alabama that the Company does not employ an individual or individuals within the State of Alabama.

_____
SIGNATURE OF COMPANY OFFICER

_____
PRINT COMPANY NAME

_____
PRINT NAME OF COMPANY OFFICER

_____
PRINT TITLE OF COMPANY OFFICER

_____
DATE

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My Cases
New Cases
View Cases
Search Cases
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Edit Profile
Change Password
Change Security Questions
My Company
Edit Company Profile
Add New User
View Existing Users
Close Company Account
My Reports
View Reports
My Resources
View Essential Resources
Take Tutorial
View User Manual
Contact Us

Company Information

View/Edit

Company Name:

Company ID Number:

Doing Business As (DBA) Name:

DUNS Number:

Physical Location:

Address 1:

Address 2:

City:

State:

Zip Code:

County:

Mailing Address:

Address 1:

Address 2:

City:

State:

Zip Code:

Additional Information:

Employer Identification Number:

Total Number of Employees:

Parent Organization:

Administrator:

Organization Designation:

Employer Category:

Federal Contractor Category:

Employees being verified:

NAICS Code: View/Edit

Total Hiring Sites: View/Edit

Total Points of Contact: View/Edit

View MOU

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DISCLOSURE STATEMENT

1. Contract/Purchase Order No. _____

2. Name of Contract/Grantee: _____
   Address: _____
   _____
   Telephone: _____
   Fax: _____

3. Nature of Contract/Grant: _____
   _____
   _____

4. Does the contractor/grantee have any relationships with any employee or official of the University, or a family member of such employee or official, that will enable such employee or official, or his/her family member, to benefit from this contract? If so, please state the names, relationships, and nature of the benefit.
   _____
   _____
   _____

(For employees of the University, family members include spouse and dependents. For members of the Board of Trustees (officials), family members include spouse, dependents, adult children and their spouses, parents, in-laws, siblings and their spouses.)

This Disclosure Form will be available for public inspection upon request.

The above information is true and accurate, to the best of my knowledge.

_____
Signature of Authorized Agent of Contractor/Grantee

Date: _____

RETURN FORM TO: The University of Alabama
Purchasing Dept.
Box 870130
Tuscaloosa, AL 35487-0130
Ph: (205) 348-5230
Fax: (205) 348-8706
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